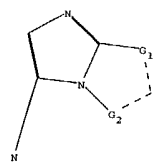
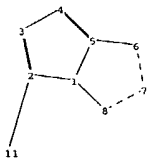
C:\stnweb\Queries\4.str





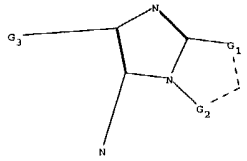
chain nodes :
    11
ring nodes :
    1 2 3 4 5 6 7 8
chain bonds :
    2-11
ring bonds :
    1-2 1-5 1-8 2-3 3-4 4-5 5-6 6-7 7-8
exact/norm bonds :
    1-2 1-5 1-8 2-3 2-11 3-4 4-5 5-6 6-7 7-8
isolated ring systems :
    containing 1 :

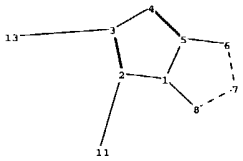
G1:C,S,N

G2:N,C

Match level :
    1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 11:CLASS

C:\stnweb\Queries\5.str





chain nodes :
    11 13
ring nodes :
    1 2 3 4 5 6 7 8
chain bonds :
    2-11 3-13
ring bonds :
    1-2 1-5 1-8 2-3 3-4 4-5 5-6 6-7 7-8
exact/norm bonds :
    1-2 1-5 1-8 2-3 2-11 3-4 3-13 4-5 5-6 6-7 7-8
isolated ring systems :
    containing 1 :

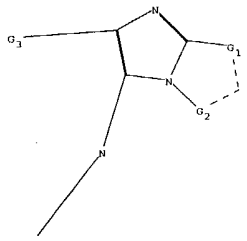
G1:C,S,N

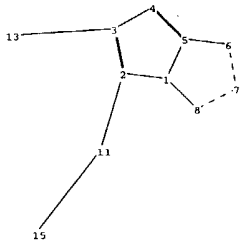
G2:N,C

G3:Cy,Ak

Match level :
    1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 11:CLASS 13:CLASS

C:\stnweb\Queries\51.str





chain nodes :
    11 13 15
ring nodes :
    1 2 3 4 5 6 7 8
chain bonds :
    2-11 3-13 11-15
ring bonds :
    1-2 1-5 1-8 2-3 3-4 4-5 5-6 6-7 7-8
exact/norm bonds :
    1-2 1-5 1-8 2-3 2-11 3-4 3-13 4-5 5-6 6-7 7-8 11-15
isolated ring systems :
    containing 1 :

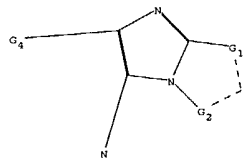
G1:C,S,N

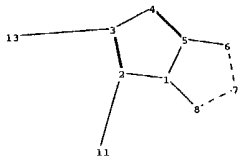
G2:N,C

G3:Cy,Ak

Match level :
    1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 11:CLASS 13:CLASS
    15:CLASS

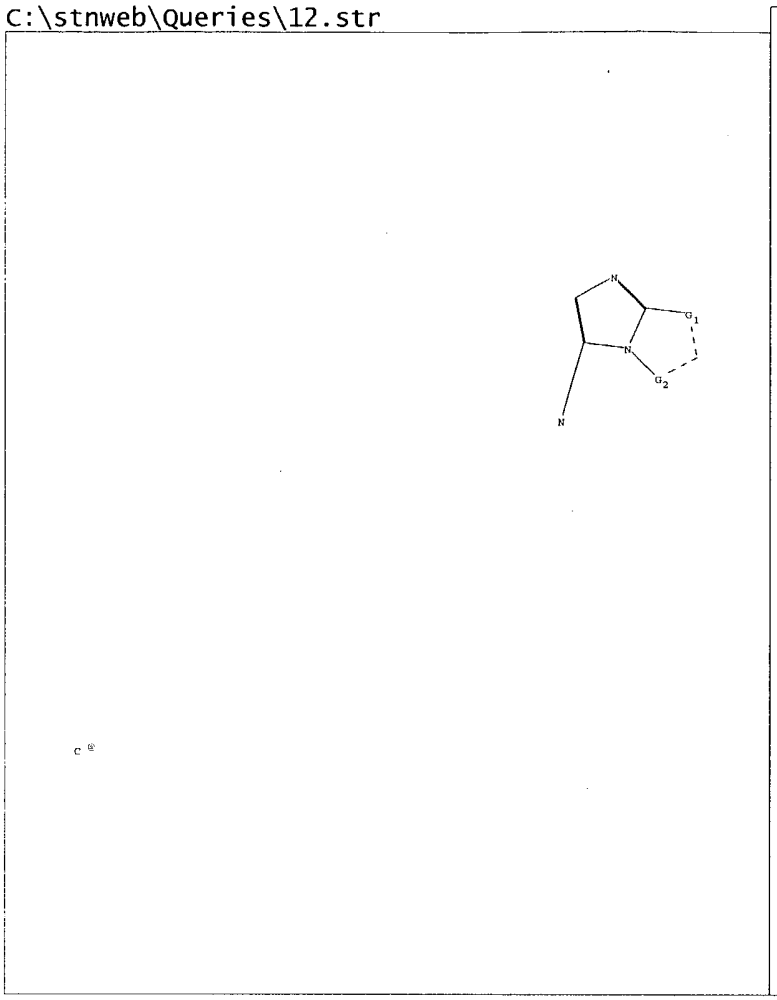
C:\stnweb\Queries\9.str

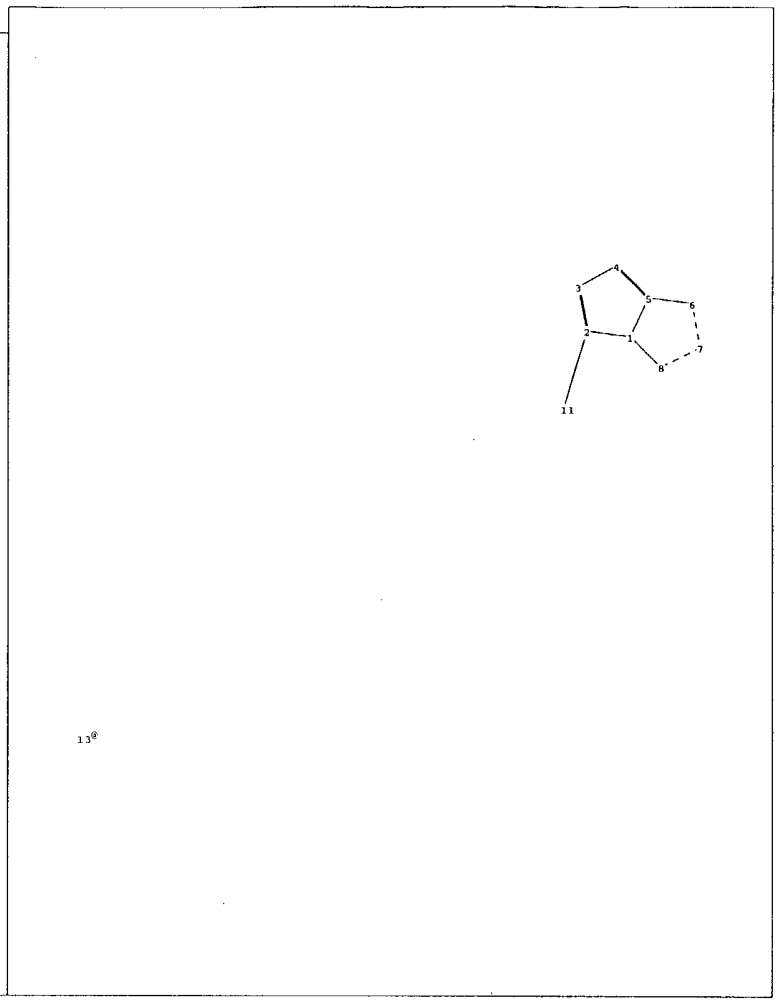





```
chain nodes :
    11  13  14
ring nodes :
    1  2  3  4  5  6  7  8
chain bonds :
    2-11  3-13
ring bonds :
    1-2  1-5  1-8  2-3  3-4  4-5  5-6  6-7  7-8
exact/norm bonds :
    1-2  1-5  1-8  2-3  2-11  3-4  3-13  4-5  5-6  6-7  7-8
isolated ring systems :
    containing 1 :


G1:C,S,N

G2:N,C

G4:H,F,Hy,CH3,OH,Cb,[*1]

Match level :
    1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  11:CLASS  13:CLASS
    14:CLASS
```

C:\stnweb\Queries\12.str





chain nodes :
    11 13
ring nodes :
    1 2 3 4 5 6 7 8
chain bonds :
    2-11
ring bonds :
    1-2 1-5 1-8 2-3 3-4 4-5 5-6 6-7 7-8
exact/norm bonds :
    1-2 1-5 1-8 2-3 2-11 3-4 4-5 5-6 6-7 7-8
isolated ring systems :
    containing 1 :

G1:C,S,N

G2:N,C

Match level :
    1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 11:CLASS 13:CLASS

```
* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1           Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2           "Ask CAS" for self-help around the clock
 NEWS  3  JAN 27   Source of Registration (SR) information in REGISTRY updated
                   and searchable
 NEWS  4  JAN 27   A new search aid, the Company Name Thesaurus, available in
                   CA/CAplus
 NEWS  5  FEB 05   German (DE) application and patent publication number format
                   changes
 NEWS  6  MAR 03   MEDLINE and LMEDLINE reloaded
 NEWS  7  MAR 03   MEDLINE file segment of TOXCENTER reloaded
 NEWS  8  MAR 03   FRANCEPAT now available on STN
 NEWS  9  MAR 29   Pharmaceutical Substances (PS) now available on STN
 NEWS 10  MAR 29   WPIFV now available on STN
 NEWS 11  MAR 29   New monthly current-awareness alert (SDI) frequency in RAPRA
 NEWS 12  APR 26   PROMT: New display field available
 NEWS 13  APR 26   IFIPAT/IFIUDB/IFICDB: New super search and display field
                   available
 NEWS 14  APR 26   LITALERT now available on STN
 NEWS 15  APR 27   NLDB: New search and display fields available
 NEWS 16  May 10   PROUSDDR now available on STN
 NEWS 17  May 19   PROUSDDR: One FREE connect hour, per account, in both May
                   and June 2004
 NEWS 18  May 12   EXTEND option available in structure searching
 NEWS 19  May 12   Polymer links for the POLYLINK command completed in REGISTRY

 NEWS EXPRESS  MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS INTER    General Internet Information
 NEWS LOGIN    Welcome Banner and News Items
 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
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  result in loss of user privileges and other penalties.

  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 18:13:10 ON 14 MAY 2004

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

FILE 'REGISTRY' ENTERED AT 18:13:33 ON 14 MAY 2004
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```

provided by InfoChem.

STRUCTURE FILE UPDATES: 13 MAY 2004 HIGHEST RN 681515-11-7
DICTIONARY FILE UPDATES: 13 MAY 2004 HIGHEST RN 681515-11-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

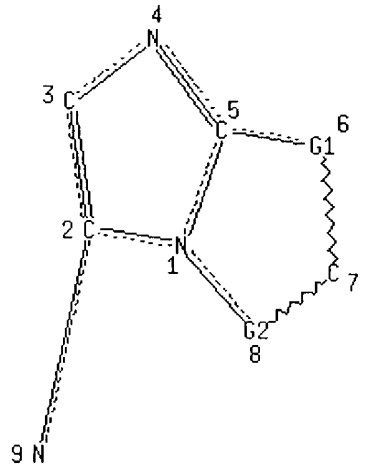
Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR

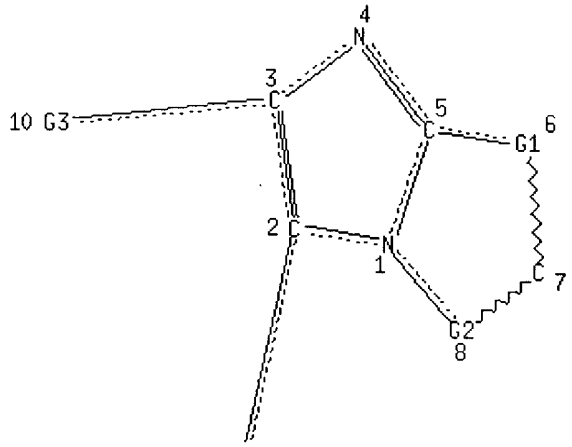
N 13 C 14

C 10 S 11 N 12
Page 1-A



Page 1-B
VAR G1=10/11/12
VAR G2=13/14
NODE ATTRIBUTES:
NSPEC IS R AT 1
NSPEC IS R AT 2
NSPEC IS R AT 3
NSPEC IS R AT 4
NSPEC IS R AT 5
NSPEC IS R AT 6
NSPEC IS R AT 7
NSPEC IS R AT 8
NSPEC IS C AT 9
DEFAULT MLEVEL IS ATOM
MLEVEL IS CLASS AT 9
DEFAULT ECLEVEL IS LIMITED

```
GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS  14

STEREO ATTRIBUTES: NONE


=> s l1
SAMPLE SEARCH INITIATED 18:17:46 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    494 TO ITERATE

100.0% PROCESSED     494 ITERATIONS                                  26 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          8547 TO    11213
PROJECTED ANSWERS:              215 TO      825

L2            26 SEA SSS SAM L1

=>
L3       STRUCTURE UPLOADED

=> d l3
L3 HAS NO ANSWERS
L3                STR
 Cy 16Ak 17


 N 14 C 15


 C 11 S 12 N 13
Page 1-A
```




```
Page 1-B

 9 N
Page 2-B
VAR G1=11/12/13
VAR G2=14/15
VAR G3=16/17
NODE ATTRIBUTES:
NSPEC   IS R      AT   1
```

```
NSPEC   IS R      AT   2
NSPEC   IS R      AT   3
NSPEC   IS R      AT   4
NSPEC   IS R      AT   5
NSPEC   IS R      AT   6
NSPEC   IS R      AT   7
NSPEC   IS R      AT   8
NSPEC   IS C      AT   9
NSPEC   IS C      AT  10
DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS  AT   9 16 17
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS  17

STEREO ATTRIBUTES: NONE


=> s l3
SAMPLE SEARCH INITIATED 18:19:46 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    494 TO ITERATE

100.0% PROCESSED     494 ITERATIONS                          20 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          8547 TO    11213
PROJECTED ANSWERS:              132 TO      668

L4            20 SEA SSS SAM L3

=> s l3 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 18:19:51 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -  10474 TO ITERATE

100.0% PROCESSED   10474 ITERATIONS                        397 ANSWERS
SEARCH TIME: 00.00.01

L5           397 SEA SSS FUL L3

=> file hcaplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                               159.62     159.83

FILE 'HCAPLUS' ENTERED AT 18:19:57 ON 14 MAY 2004
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```

FILE COVERS 1907 - 14 May 2004 VOL 140 ISS 21
FILE LAST UPDATED: 13 May 2004 (20040513/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> s 15
L6 75 L5

=>
L7 STRUCTURE UPLOADED

=> s 17
REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 18:21:18 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 301 TO ITERATE

100.0% PROCESSED 301 ITERATIONS 6 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 4980 TO 7060
PROJECTED ANSWERS: 6 TO 266

L8 6 SEA SSS SAM L7

L9 2 L8

=> file reg
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 2.36 167.33

FILE 'REGISTRY' ENTERED AT 18:21:22 ON 14 MAY 2004
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STRUCTURE FILE UPDATES: 13 MAY 2004 HIGHEST RN 681515-11-7
DICTIONARY FILE UPDATES: 13 MAY 2004 HIGHEST RN 681515-11-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

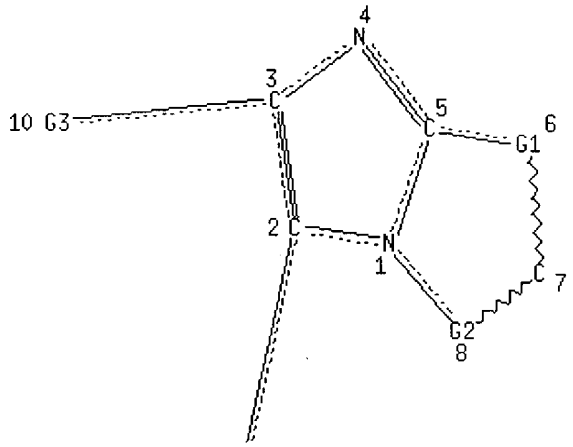
=>
L10 STRUCTURE UPLOADED

=> d l10
L10 HAS NO ANSWERS
L10 STR

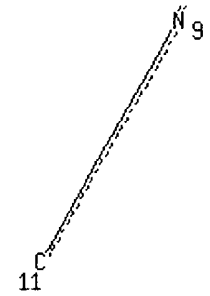
Cy 17Ak 18

N 15 C 16

C 12 S 13 N 14
Page 1-A



Page 1-B



Page 2-B
VAR G1=12/13/14
VAR G2=15/16
VAR G3=17/18
NODE ATTRIBUTES:
NSPEC IS R AT 1

```
NSPEC   IS R      AT   2
NSPEC   IS R      AT   3
NSPEC   IS R      AT   4
NSPEC   IS R      AT   5
NSPEC   IS R      AT   6
NSPEC   IS R      AT   7
NSPEC   IS R      AT   8
NSPEC   IS C      AT   9
NSPEC   IS C      AT  10
NSPEC   IS C      AT  11
DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS  AT   9 11 17 18
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS  18

STEREO ATTRIBUTES: NONE


=> s l10
SAMPLE SEARCH INITIATED 18:21:37 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     301 TO ITERATE

100.0% PROCESSED     301 ITERATIONS                                 6 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         4980 TO     7060
PROJECTED ANSWERS:               6 TO      266

L11           6 SEA SSS SAM L10

=> s l10 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 18:21:42 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   6308 TO ITERATE

100.0% PROCESSED    6308 ITERATIONS                                87 ANSWERS
SEARCH TIME: 00.00.01

L12          87 SEA SSS FUL L10

=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   155.42     322.75

FILE 'HCAPLUS' ENTERED AT 18:21:47 ON 14 MAY 2004
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FILE COVERS 1907 - 14 May 2004 VOL 140 ISS 21
FILE LAST UPDATED: 13 May 2004 (20040513/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s l12
L13          16 L12

=> s l13 and gerlach, m?/au
            233 GERLACH, M?/AU
L14           3 L13 AND GERLACH, M?/AU

=> d l14, ibib abs fhitstr, 1-3
```

L14 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

would you consider this OOP

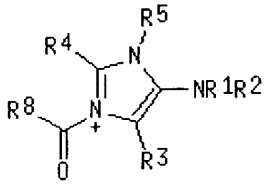
ACCESSION NUMBER: 2001:798222 HCAPLUS
DOCUMENT NUMBER: 135:344484
TITLE: Preparation of N-acylimidazopyridineamine chlorides and analogs as μ-opiate receptor ligands
INVENTOR(S): **Gerlach, Matthias**; Maul, Corinna
PATENT ASSIGNEE(S): Gruenenthal G.m.b.H., Germany
SOURCE: PCT Int. Appl., 83 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

App 10273344

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001081344	A1	20011101	WO 2001-EP3772	20010403
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 10019714	A1	20020110	DE 2000-10019714	20000420
EP 1274709	A1	20030115	EP 2001-931560	20010403
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003531208	T2	20031021	JP 2001-578434	20010403
NO 2002004838	A	20021007	NO 2002-4838	20021007
US 2003119842	A1	20030626	US 2002-273344	20021018

PRIORITY APPLN. INFO.: DE 2000-10019714 A 20000420
WO 2001-EP3772 W 20010403

OTHER SOURCE(S): MARPAT 135:344484
GI

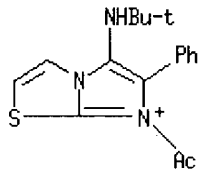


I

AB Title compds. (ICl-)[II; R1 = CMe3, cyclohexyl, CH2CO2Me, (un)substituted Ph, etc.; R2 = H or alkanoyl; R3 = Me, Ph, 2-furyl, 2-pyridinyl, etc.; R4R5 = (un)substituted CH:CHCH:CH, CH:NCH:CH, N:CHCH:CH, etc.; R8 = (cyclo)alkyl] were prepd. Thus, 2-aminopyridine was cyclocondensed with Me3CNC and PhCHO to give, after N-acylation, II (R1 = CMe3, R2 = H, R3 = Ph, R4R5 = CH:CHCH:CH, R8 = Me). Data for biol. activity of II were given.

IT **370858-36-9P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of N-acylimidazopyridineamine chlorides and analogs as μ-opiate receptor ligands)

RN 370858-36-9 HCAPLUS
CN Imidazo[2,1-b]thiazolium, 7-acetyl-5-[(1,1-dimethylethyl)amino]-6-phenyl-, chloride (9CI) (CA INDEX NAME)



Cl^-

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

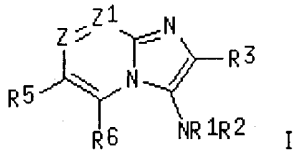
L14 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2001:283961 HCAPLUS
DOCUMENT NUMBER: 134:295826
TITLE: Preparation of imidazopyridineamines and analogs as analgesics
INVENTOR(S): **Gerlach, Matthias**; Maul, Corinna
PATENT ASSIGNEE(S): Gruenenthal G.m.b.H., Germany
SOURCE: PCT Int. Appl., 30 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

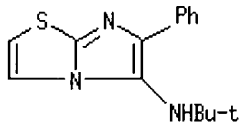
WO 2001027119 A2 20010419 WO 2000-EP9098 20000918
WO 2001027119 A3 20011011
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
DE 19948434 A1 20010607 DE 1999-19948434 19991008
PT 1218378 T 20030930 PT 2000-969439 20001006
ES 2198355 T3 20040201 ES 2000-969439 20001006
ZA 2002003579 A 20030806 ZA 2002-3579 20020506
PRIORITY APPLN. INFO.: DE 1999-19948434 A 19991008
OTHER SOURCE(S): MARPAT 134:295826
GI



I

AB Substance libraries comprising, e.g., I [R1 = CMe3, cycloalkyl, (un)substituted Ph, etc.; R2 = H, cycloalkyl, alkanoyl, etc.; R3 = (cyclo)alkyl, (un)substituted (hetero)aryl, etc.; R5,R6 = H, halo, alkyl, alkoxy, etc.; Z = N or CR10; Z1 = N or CR9; R9,R10 = groups cited for R5; Z = N ≠ Z1; Z1 = N ≠ Z] were prepd. Thus, pyridine-2-amine was cyclocondensed with cyclohexanecarboxaldehyde and tert-Bu isocyanide to give I (R1 = CMe3, R2 = R5 = R6 = H, R3 = cyclohexyl, Z = Z1 = CH). Data for biol. activity of I were given.

IT **214531-41-6P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of imidazopyridineamines and analogs as analgesics)
RN 214531-41-6 HCAPLUS
CN Imidazo[2,1-b]thiazol-5-amine, N-(1,1-dimethylethyl)-6-phenyl- (9CI) (CA INDEX NAME)



L14 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN
Full Text | Citing References

ACCESSION NUMBER: 2001:283960 HCAPLUS
DOCUMENT NUMBER: 134:295829
TITLE: Preparation of aminoimidazo[2,1-b]thiazoles, -pyrazoles, and -triazoles as analgesics
INVENTOR(S): **Gerlach, Matthias**; Maul, Corinna
PATENT ASSIGNEE(S): Gruenenthal G.m.b.H., Germany
SOURCE: PCT Int. Appl., 56 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001027118	A2	20010419	WO 2000-EP9097	20000918
WO 2001027118	A3	20010920		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
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DE 19948436	A1	20010607	DE 1999-19948436	19991008
BR 2000014817	A	20020618	BR 2000-14817	20000918
EP 1218383	A2	20020703	EP 2000-967693	20000918
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003511456	T2	20030325	JP 2001-530336	20000918
NZ 518390	A	20031031	NZ 2000-518390	20000918
NO 2002001566	A	20020527	NO 2002-1566	20020403
US 2002183320	A1	20021205	US 2002-117335	20020408
US 6657064	B2	20031202		
US 2004023927	A1	20040205	US 2003-633579	20030805

PRIORITY APPLN. INFO.:

DE 1999-19948434	A	19991008
DE 1999-19948436	A	19991008
DE 1999-19948438	A	19991008
WO 2000-EP9097	W	20000918
US 2002-117335	A3	20020408

OTHER SOURCE(S): MARPAT 134:295829
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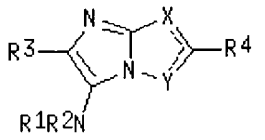
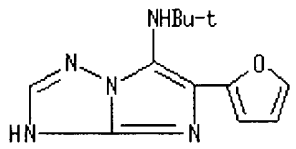


I

AB Title compds. [I; R1 = CMe3, cyanohexyl, (substituted) Ph, cycloalkyl, etc.; R2 = H, (branched) (substituted) alkylcarbonyl, Ph, naphthyl, pyridyl, thiazolyl, furoyl, etc.; R3 = (branched) alkylcycloalkyl, (substituted) Ph, naphthyl, quinolinyl, anthracenyl, phenanthrenyl, etc.; X = CR5, N, S; Y = N, but when X = S, Y = CR6, N; R4, R5, R6 = H, (branched) alkyl, halo, CF3, cyano, NO2, amino, etc.], were prepd. Using a Zymark robotic synthesis system, 3-amino-1,2,4-triazole and HClO4 in CH2Cl2, furfural in CH2Cl2, and tert-butylisonitrile in CH2Cl2 were added successively to a reactor tube at 15° followed by 11 h stirring at 15° to give tert-butyl-(5-furan-2-yl-imidazo[1,2-b][1,2,4]triazol-6-yl)amine. Several I at 10 μM showed 34-77% α2 adrenoceptor affinity.

IT **334771-60-7P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of aminoimidazothiazoles, -pyrazoles, and -triazoles as analgesics)
RN 334771-60-7 HCAPLUS
CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-(2-furanyl)- (9CI) (CA INDEX NAME)

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L5          397 S L3 FULL

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                S L7

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=> s l15 and maul,c?/au
             93 MAUL,C?/AU
L16           0 L15 AND MAUL,C?/AU

=> d l15, ibib abs fhitstr, 1-13

L15  ANSWER 1 OF 13  HCAPLUS  COPYRIGHT 2004 ACS on STN
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Full Text | Citing References

ACCESSION NUMBER: 2003:507684 HCAPLUS
DOCUMENT NUMBER: 139:85530
TITLE: Preparation of C1 to c4 side-chain modified nodulisporic acid analogs as anthelmintic agents
INVENTOR(S): Shih, Thomas; Colletti, Steven L.; Fisher, Michael H.; Meinke, Peter T.; Kuo, Howard C. H.; Chakravarty, Prasun K.; Wyvratt, Matthew J.; Tyagarajan, Sriram; Berger, Richard
PATENT ASSIGNEE(S): Merck & Co., Inc., USA
SOURCE: U.S., 57 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6586452	B1	20030701	US 2001-901266	20010709

PRIORITY APPLN. INFO.: US 2000-218398P P 20000714
OTHER SOURCE(S): MARPAT 139:85530
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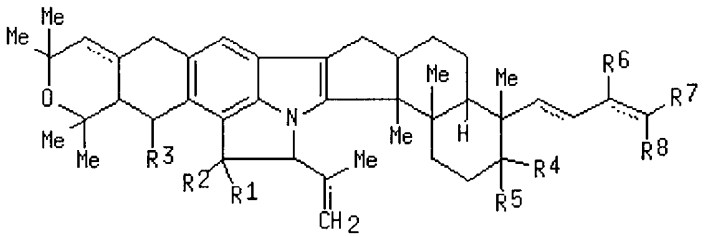

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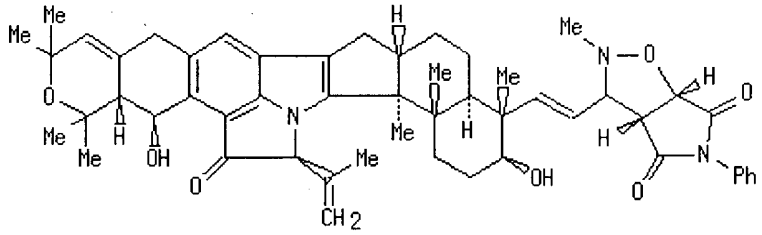


II

AB Nodulisporic acid derivs., such as I [R1 = H, alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heterocyclyl; R2-R4 = (substituted) OH; R1R2 = O; R5 = H, (substituted) OH; R4R5 = O; R6-R8 = H, alkyl, alkenyl, aryl, cycloalkyl, halo, CN acyl, amino, etc.] were prepd. The compds. were acaricidal, antiparasitic, insecticidal and anthelmintic agents. Thus, nodulisporic acid deriv. II was prepd. via a multistep synthetic sequence starting from nodulisporic acid A, N-methylhydroxylamine hydrochloride and N-phenyl-maleimide.

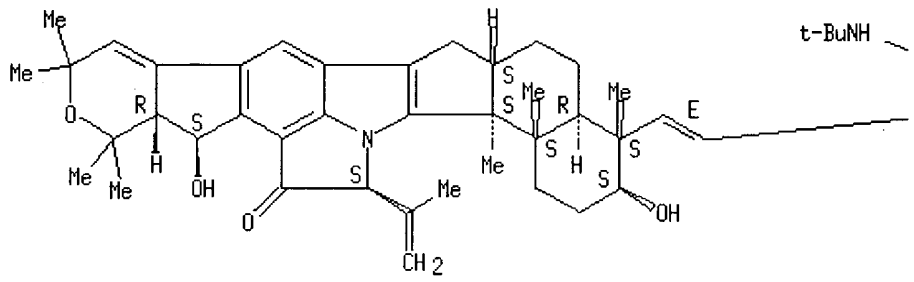
IT **552836-27-8P**
RL: AGR (Agricultural use); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of C1 to c4 side-chain modified nodulisporic acid analogs as anthelmintic agents)

RN 552836-27-8 HCAPLUS
CN 1H-Benz[6,7]indeno[1,2-b]pyrano[3',4':4,5]cyclopenta[1,2-f]pyrrolo[3,2,1-

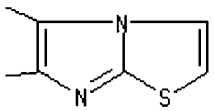
hi]indol-14(15H)-one, 4-[(1E)-2-[5-[(1,1-dimethylethyl)amino]imidazo[1,2-b]thiazol-6-yl]ethenyl]-2,3,4,4a,5,6,6a,7,10,12,12a,13,16b,16c-tetradecahydro-3,13-dihydroxy-4,10,10,12,12,16b,16c-heptamethyl-15-(1-methylethenyl)-, (3S,4S,4aR,6aS,12aR,13S,15S,16bS,16cS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



PAGE 1-B



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 2 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

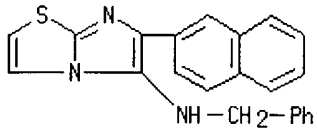
Full Text | Citing References

ACCESSION NUMBER: 2003:363790 HCAPLUS
DOCUMENT NUMBER: 139:230677
TITLE: Microwave-assisted multi-component synthesis of fused 3-aminoimidazoles
AUTHOR(S): Ireland, Sarah M.; Tye, Heather; Whittaker, Mark
CORPORATE SOURCE: Evotec OAI, Abingdon, Oxfordshire, OX14 4SD, UK
SOURCE: Tetrahedron Letters (2003), 44(23), 4369-4371
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:230677

AB A variety of fused 3-aminoimidazoles have been synthesized by a microwave assisted Ugi three-component coupling (3cc) reaction catalyzed by scandium triflate in methanol as solvent. Yields of 33-93% have been achieved after just 10 min of microwave irradn. using a simple one-stage procedure. The methodol. described is suitable for the rapid and efficient synthesis of a range of fused heterocycles of pharmacol. interest.

IT **593270-92-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of fused 3-aminoimidazoles via microwave assisted Ugi three-component coupling as the key step)

RN 593270-92-9 HCAPLUS
CN Imidazo[2,1-b]thiazol-5-amine, 6-(2-naphthalenyl)-N-(phenylmethyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 3 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2003:90593 HCAPLUS
DOCUMENT NUMBER: 138:401653
TITLE: Fused heterocycles: Synthesis of some new imidazothiazoles
AUTHOR(S): Cesur, Nesrin; Cesur, Zafer; Guner, Handan; Kasimogullari, B. Ozden
CORPORATE SOURCE: Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Istanbul, Instanbul, 34452, Turk.
SOURCE: Heterocyclic Communications (2002), 8(5), 433-438
CODEN: HCOMEX; ISSN: 0793-0283
PUBLISHER: Freund Publishing House Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 138:401653
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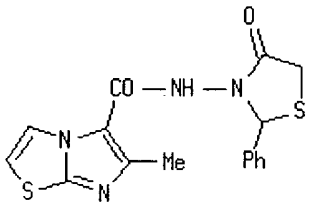

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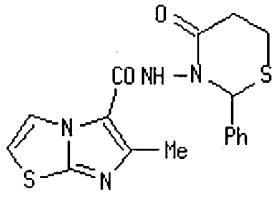
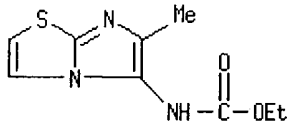


II

AB Reaction of aldehyde-hydrazones or semicarbazones bearing an imidazo[2,1-b][1,3]thiazole ring system with mercaptoalkanoic acids were investigated and found to give thiazolidine and thiazine derivs., e.g. I and II. Antimycobacterial activities of compds. thus obtained were evaluated against Mycobacterium tuberculosis H37Rv using rifampine as std. (no data).

IT **531501-57-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of some new imidazothiazoles via aldehyde hydrazones or semicarbazones)

RN 531501-57-2 HCAPLUS
CN Carbamic acid, (6-methylimidazo[2,1-b]thiazol-5-yl)-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 4 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

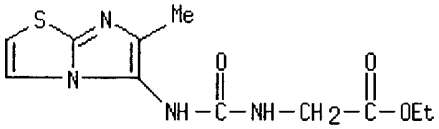
Full Text | Citing References

ACCESSION NUMBER: 2000:211394 HCAPLUS
DOCUMENT NUMBER: 132:334420
TITLE: Synthesis of new functionalized imidazo[2,1-b]thiazoles and thiazolo[3,2-a]pyrimidines
AUTHOR(S): Peterlin-Masic, Lucija; Malesic, Mateja; Breznik, Matej; Krbavcic, Ales
CORPORATE SOURCE: Faculty of Pharmacy, University of Ljubljana, Ljubljana, 1000, Slovenia
SOURCE: Journal of Heterocyclic Chemistry (2000), 37(1), 95-101
CODEN: JHTCAD; ISSN: 0022-152X
PUBLISHER: HeteroCorporation
DOCUMENT TYPE: Journal
LANGUAGE: English

AB 5-Oxo-5H-[1,3]thiazolo[3,2-a]pyrimidine-6-carboxylic acid and 6-methylimidazo[2,1-b]thiazole-5-carboxylic acid were reacted with amines via reaction with oxalyl chloride and use of N,N-dimethylformamide as a catalyst to give primary and secondary amide derivs. N,N'-disubstituted ureas and perhydroimidazo[1,5-c]thiazole derivs. of imidazo[2,1-b]thiazole were also prepd. By NMR anal. of one of the compds. prepd., existence of two stereoisomers resulting from both optical and conformational isomerism was obsd.

IT **267897-75-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of imidazo[2,1-b]thiazoles and thiazolo[3,2-a]pyrimidines)

RN 267897-75-6 HCAPLUS
CN Glycine, N-[[(6-methylimidazo[2,1-b]thiazol-5-yl)amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 5 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1998:624858 HCAPLUS
DOCUMENT NUMBER: 129:302566
TITLE: A new heterocyclic multicomponent reaction for the combinatorial synthesis of fused 3-aminoimidazoles
AUTHOR(S): Bienayme, Hugues; Bouzid, Kamel
CORPORATE SOURCE: Rhone-Poulenc Technologies, St-Fons, F-69192, Fr.
SOURCE: Angewandte Chemie, International Edition (1998), 37(16), 2234-2237
CODEN: ACIEF5; ISSN: 1433-7851
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 129:302566
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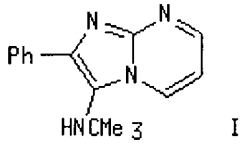


I

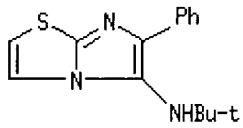
AB Reaction of heteroarom. amidines, aldehydes, and isonitriles in the presence of a catalytic amt. of protic acids gave fused 3-aminoimidazoles. E.g., HClO4-catalyzed reaction of 2-aminopyrimidine, PhCHO, and Me3CNC gave 82% imidazopyrimidine I.

IT **214531-41-6P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of fused aminoimidazoles by multicomponent reaction of aminoamidines, aldehydes, and isonitriles)

RN 214531-41-6 HCAPLUS

CN Imidazo[2,1-b]thiazol-5-amine, N-(1,1-dimethylethyl)-6-phenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 6 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1997:169046 HCAPLUS
DOCUMENT NUMBER: 126:238333
TITLE: Transformations of methyl L-(-)-Thiazolidine-4-carboxylate, 2-amino-2-thiazoline and 2-aminothiazole into thiazoloazines and azolothiazoles
AUTHOR(S): Malesic, Mateja; Krbavcic, Ales; Stanovnik, Branko
CORPORATE SOURCE: Faculty of Pharmacy, University of Ljubljana, Lujbljana, 1000, Slovenia
SOURCE: Journal of Heterocyclic Chemistry (1997), 34(1), 49-55
CODEN: JHTCAD; ISSN: 0022-152X
PUBLISHER: HeteroCorporation
DOCUMENT TYPE: Journal
LANGUAGE: English

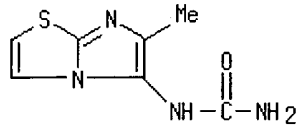
AB In the search for potential immunomodulators Me L-(-)-thiazolidine-4-carboxylate (I), 2-amino-2-thiazoline (II), and 2-aminothiazole (III) were transformed into derivs. of various bicyclic systems. Thus, from I, derivs. of perhydrothiazolo[3,4-a]pyrazine, perhydrothiazolo[4,3-c][1,4]oxazine, and perhydroimidazo[1,5-c]thiazole were prepd. From II, derivs. of 2,3-dihydrothiazolo[2,3-b]pyrimidine were prepd. From III, derivs. of imidazo[2,1-b]thiazoline were prepd. 6-(P-Sulfamoylphenyl)-7-oxoperhydroimidazo[1,5-c]thiazole-5-thione was found to exhibit immunorestoration activity.

IT **188561-50-4P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(transformations of Me thiazolidinecarboxylate, aminothiazoline, and aminothiazole into thiazoloazines and azolothiazoles)

RN 188561-50-4 HCAPLUS

CN Urea, (6-methylimidazo[2,1-b]thiazol-5-yl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 7 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

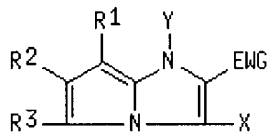
ACCESSION NUMBER: 1995:350430 HCAPLUS
DOCUMENT NUMBER: 122:147044
TITLE: A silver halide color photographic material.
INVENTOR(S): Ikesu, Satoru; Kaneko, Yutaka
PATENT ASSIGNEE(S): Konica Corporation, Japan
SOURCE: Eur. Pat. Appl., 37 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 608133	A1	19940727	EP 1994-300429	19940120
EP 608133	B1	19990707		
R: DE, FR, GB, NL				
JP 06222526	A2	19940812	JP 1993-8572	19930121
JP 06242569	A2	19940902	JP 1993-25720	19930215
JP 06242570	A2	19940902	JP 1993-25721	19930215

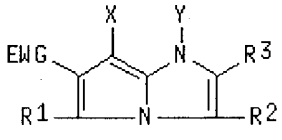
PRIORITY APPLN. INFO.:

JP 1993-8572	19930121
JP 1993-25720	19930215
JP 1993-25721	19930215

OTHER SOURCE(S): MARPAT 122:147044
GI



I



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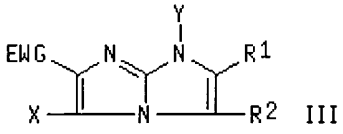


III

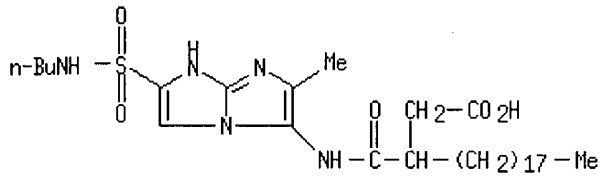
AB A Ag halide color photog. material comprises ≥1 of the hydrophilic colloid layers contg. a cyan dye-forming coupler represented by I, II, or III [R1-R3, Y = H, substituent; EWG = electron withdrawing group having Hammet's substituent const. ≥0.3; X = H, group capable of splitting off upon reaction with an oxidized product of a color developing agent]. The formed dye images have improved hue stability against heat, moisture and light.

IT **160877-96-3**

RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)
(photog. cyan coupler for improved hue stability)

RN 160877-96-3 HCAPLUS

CN Heneicosanoic acid, 3-[[[6-[(butylamino)sulfonyl]-2-methyl-1H-imidazo[1,2-a]imidazol-3-yl]amino]carbonyl]- (9CI) (CA INDEX NAME)



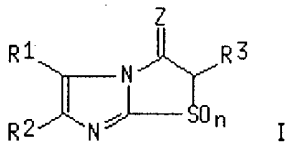
L15 ANSWER 8 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1993:222791 HCAPLUS
DOCUMENT NUMBER: 118:222791
TITLE: Photographic cyan coupler with heat and moisture resistance
INVENTOR(S): Kita, Hiroshi; Kaneko, Yutaka; Ikesu, Satoru
PATENT ASSIGNEE(S): Konica Co., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04260035	A2	19920916	JP 1991-42345	19910215
JP 2849954	B2	19990127		

PRIORITY APPLN. INFO.: JP 1991-42345 19910215
OTHER SOURCE(S): MARPAT 118:222791
GI



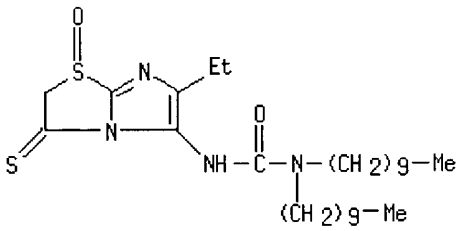
I

AB Photog. coupler I (R1-2 = H, substituent, R1 and R2 may form a ring; R3 = H, releasing group by the reaction with the oxidized color developing agent; Z = O, S; n = 1-2). The coupler gives cyan images with heat-, light-, and moisture-resistance.

IT **147034-73-9**
RL: TEM (Technical or engineered material use); USES (Uses)
(photog. cyan coupler)

RN 147034-73-9 HCAPLUS

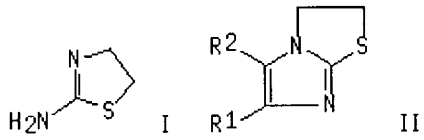
CN Urea, N,N-didecyl-N'-(6-ethyl-2,3-dihydro-1-oxido-3-thioxoimidazo[2,1-b]thiazol-5-yl)- (9CI) (CA INDEX NAME)



L15 ANSWER 9 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

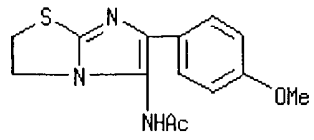
Full Text | Citing References

ACCESSION NUMBER: 1987:102158 HCAPLUS
DOCUMENT NUMBER: 106:102158
TITLE: Novel syntheses of fused imidazoles. III. Simplified construction of the imidazo[2,1-b]thiazoline system
AUTHOR(S): Lantos, Ivan; McGuire, Michael
CORPORATE SOURCE: Chem. Res. Dev., Smith Kline and French Lab., Philadelphia, PA, 19101, USA
SOURCE: Heterocycles (1986), 24(4), 991-6
CODEN: HTCYAM; ISSN: 0385-5414
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 106:102158
GI



AB Aminothiazoline I reacted with 4-RC6H4CHO (R = OMe, F, H, Me) in the presence of NaCN at room temp. to give imidazothiazolines II (R1 = 4-RC6H4; R2 = R1CH:N) in 20-80% yields. Acid hydrolysis of the latter gave II (R2 = NH2).

IT **106726-46-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 106726-46-9 HCAPLUS
CN Acetamide, N-[2,3-dihydro-6-(4-methoxyphenyl)imidazo[2,1-b]thiazol-5-yl]-(9CI) (CA INDEX NAME)

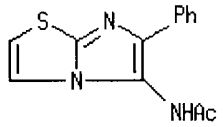


L15 ANSWER 10 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

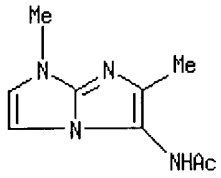
Full Text | Citing References

ACCESSION NUMBER: 1974:505382 HCAPLUS
DOCUMENT NUMBER: 81:105382
TITLE: Cyclization of ω-chloro-ω-acylamido acetophenones
AUTHOR(S): Drach, B. S.; Dolgushina, I. Yu.; Sinitsa, A. D.

CORPORATE SOURCE: Inst. Org. Khim., Kiev, USSR
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1974), (7), 928-31
CODEN: KGSSAQ; ISSN: 0132-6244
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI For diagram(s), see printed CA Issue.
AB Acylamidothiazoles (I; R = Me, MeO, Ph, PhCH2O; R1 = H, Ph, MeS, NH2, Me) were obtained in 60-94% yields by cyclization of RCONHCHClCOPh (II) with R1CSNH2 1 hr in boiling THF. Analogously obtained were 60-86% benzothiazines (III; R = Me, Ph, MeO) from o-aminobenzenethiol, 55-62% imidazothiazoles (IV; R = Me, MeO) from 2-aminothiazole, and 60-8% imidazopyridines (V; R = Me, MeO) from 2-aminopyridine.
IT **54167-97-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 54167-97-4 HCAPLUS
CN Acetamide, N-(6-phenylimidazo[2,1-b]thiazol-5-yl)- (9CI) (CA INDEX NAME)



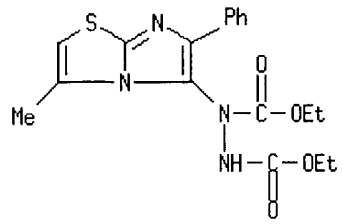
L15 ANSWER 11 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN
Full Text | Citing References
ACCESSION NUMBER: 1973:159516 HCAPLUS
DOCUMENT NUMBER: 78:159516
TITLE: 1H-Imidazo[1,2-a]imidazoles. II. Chemistry of 1,6-dimethyl-1H-imidazo[1,2-a]imidazole
AUTHOR(S): Miller, Laird F.; Bambury, Ronald E.
CORPORATE SOURCE: Merrell-Natl. Lab. Div., Richardson-Merrell, Inc., Cincinnati, OH, USA
SOURCE: Journal of Organic Chemistry (1973), 38(10), 1955-7
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 78:159516
GI For diagram(s), see printed CA Issue.
AB Electrophilic substitutions of 1,6-dimethyl-1H-imidazo [1,2-a]imidazole (I) occurred initially at the 5-position. Nitration of I also gave a dinitrated product whose structure was not conclusively established. A series of Hueckel MO calcns. were made in order to det. the site of substitution.
IT **38739-98-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 38739-98-9 HCAPLUS
CN Acetamide, N-(1,6-dimethyl-1H-imidazo[1,2-a]imidazol-5-yl)- (9CI) (CA INDEX NAME)



L15 ANSWER 12 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1968:95754 HCAPLUS
DOCUMENT NUMBER: 68:95754
TITLE: Substitution and addition reactions of 2-phenylimidazo[2,1-b]benzothiazole
AUTHOR(S): Pentimalli, Luciano; Guerra, Anna Maria
CORPORATE SOURCE: Univ. Bologna, Bologna, Italy
SOURCE: Gazzetta Chimica Italiana (1967), 97(8), 1286-93
CODEN: GCITA9; ISSN: 0016-5603
DOCUMENT TYPE: Journal
LANGUAGE: Italian
GI For diagram(s), see printed CA Issue.
AB Compds. of the general formulas I and II are prepd. A mixt. of 3.3 g. 2-amino-4-methylthiazole, 6 g. BrCH2COPh, and 30 ml. EtOH is refluxed 3 hrs. to give 68% 3-methyl-6-phenylimidazo[2,1-b]thiazole (III), m. 113° (ligroine). Similarly prepd. are (m.p. given): 2-phenylimidazo[2,1-b]-benzothiazole (IV), 97-9° (HCl salt m. 224-6°); I (Y = H, X = NO2), 257-8° (pyridine); II (Y = H, X = NO2), 284-6°. A mixt. of 1 g. IV, 0.8 g. EtO2CN:NCO2Et, and 15 ml. C6H6 is refluxed 3 hrs. to give 90% II [X = H, Y = N(CO2Et)NHCO2Et], m. 172-3° (C6H6-ligroine). Similarly prepd. is I [X = H, Y = N(CO2Et)NHCO2Et], m. 143° (C6H6-ligroine). A mixt. of 1 g. III, 0.45 g. maleic anhydride, and 45 ml. C6H6 is refluxed to give 91% I [X = H, Y = CH(CO2H)CH2CO2H], m. 179-80° (EtOH). Similarly prepd. is II [X = H, Y = CH(CO2H)CH2CO2H], m. 173-4° (xylene). A mixt. of 1 g. IV, diazonium salt (prepd. from 0.6 g. p-O2NC6H4NH2), and 20 ml. pyridine is kept overnight to give II (X = H, Y = p-O2NC6H4N:N), m. 240-1° (HOAc). Similarly prepd. is I (X = H, Y = p-O2NC6H4N:N), m. 171-2° (ligroine). A soln. of 1 g. IV in 10 ml. HOAc is treated with an aq. soln. of 0.5 g. NaNO2, the mixt. agitated 30 min., and neutralized with 10% NaOH to give 52% II (X = H, Y = NO), m. 179-80° (ligroin). A soln. of 2 g. IV in 20 ml. concd. H2SO4 is cooled, treated with 0.8 ml. HNO3 (d. 1.40), and agitated 90 min. to give II (X = Y = NO2), m. 327-9°, and II (X = NO2, Y = H), m. 282-5° (pyridine). Similarly prepd. is I (X = Y = NO2), m. 289-90° (pyridine).
IT **17833-09-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 17833-09-9 HCAPLUS
CN Bicarbamic acid, (3-methyl-6-phenylimidazo[2,1-b]thiazol-5-yl)-, diethyl ester (8CI) (CA INDEX NAME)



L15 ANSWER 13 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1963:14863 HCAPLUS
DOCUMENT NUMBER: 58:14863
ORIGINAL REFERENCE NO.: 58:2443e-h,2444a-e
TITLE: Bicyclic heterocyclic compounds with a common nitrogen atom. IV. Aminoimidazo[2,1-b]thiazoles
AUTHOR(S): Pyl, Theodor; Wuensch, Karl Heinz; Buelling, Lothar; Beyer, Hans
CORPORATE SOURCE: Univ. Greifswald, Germany
SOURCE: Ann. (1962), 657, 113-20
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

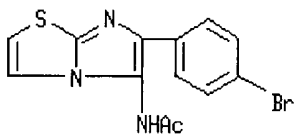
AB 5-Nitro- (I) and 5-nitrosoimidazo[2,1-b]thiazoles (II) were reduced with Zn in AcOH to give the corresponding 5-NH2 derivs. (III), which were relatively stable and behaved chem. as aromatic amines. I were dissolved or suspended in AcOH, treated portionwise with Zn dust with gentle heating, filtered, and the filtrate treated with Et2O-HCl or a few drops concd. H2SO4 [in the latter case the initially formed ppt. (ZnSO4) was discarded; the product crystd. on standing] gave III HCl or H2SO4 salts. Treatment of III salts in H2O with satd. aq. NaOAc or aq. picric acid (IV) gave free III and III picrates, resp. The following III were prepd. in this manner [R, R', R'', m.p. (decompn.), recrystn. solvent, % yield given] (R'' = H in all cases): H, H, Br (V), 183° dil. EtOH, 50; Me, H, Br (VI), 217°, MeOH, 20; H, Me, Br (VII), 200°, MeOH, 50; Me, Me, Br (VIII), 220° MeOH, 20; H, H, Cl (IX), 206°, dil. EtOH, 50; H, H, Me (as picrate), 250° (unsharp), aq. IV, 30; H, H, NH2 (as tri-HCl salt), above 300°, dil. HCl, 70; Me, H, NH2 (as dipicrate), 223°, --, 75; H, Me, NH2 (as dipicrate), 196°, alc.-IV, 65. II dissolved or suspended in AcOH cooled until the greater part of the AcOH solidified, treated portionwise with Zn dust with stirring, when decolorized the soln. filtered, the filtrate treated with a few drops concd. H2SO4 [the initial ppt. (ZnSO4) was discarded], and kept several hrs. gave III sulfate, converted to the free base or picrate as above. Thus were prepd. the following III (same data as above given) (R'' = H in all cases): H, H, Br, 183°, --, --; H, H, H (as picrate), 234°, aq. IV, 40; H, Me, H (as picrate), 213°, --, 33. The bases V-IX were stable; the other bases were unstable and were isolated only as picrates. 5-Nitro-6-(p-bromophenyl)imidazo[2,1-b]thiazole (1.6 g.) in 10 cc. AcOH and 5 cc. Ac2O treated with Zn dust and dild. with H2O gave 1.3 g. III (R'' = Ac, R = R' = H, R''' = Br), m. 211° (decompn.) (dil. EtOH). V (1 g.), 0.9 g. 4-EtO2CNHC6H4SO2Cl, and 0.3 g. pyridine in 100 cc. MeOH heated 2 hrs. and cooled gave 1.1 g. III (R = R' = H, R'' = 4-EtO2CNHC6H4SO2, RH''' = Br) (X) hydrate, m. 195° (H2O); X.HO2 dried in vacuo at 110° gave anhyd. X, m. 214-15°. X (1 g.) and 2 cc. 2N EtOH-NaOH in 50 cc. EtOH heated 6 hrs. at 60°, concd., poured into 1 l. H2O, and kept several hrs. gave 0.6 g. III (R = R' = H, R'' = 4-H2NC6H4SO2, R''' = Br), m. 210-11°. V (1.5 g.) in 75 cc. Me2CO treated with 2 g. PhNCO, kept 1 hr., and concd. gave 1.7 g. III (R = R' = H, R'' = PhNHCO, R''' = Br), m. 238° (decompn.) (EtOH). V (1.5 g.) and 0.7 g. PhNCS treated with 1 drop pyridine, heated (exothermic reaction), the melt taken up in EtOH, and the soln. treated with H2O gave 1.3 g. III (R = R' = H, R'' = PhNHCS, R''' = Br), m. 202° (decompn.) (dil. EtOH). V (1.5 g.) and 5 cc. BzH heated 5 min., the product dissolved in EtOH, and the soln. treated with H2O gave 1.2 g. benzylidene deriv. of V, m. 195° (decompn.) (EtOH). V (1.5 g.) and 3 cc. 2-HOC6H4CHO treated similarly gave 1.1 g. salicylidene deriv. of V, m. 215° (decompn.) (EtOH with C). V (2.9

g.) in 10 cc. concd. HCl and 100 cc. H2O treated with 0.8 g. NaNO2 at 0-5° and the ppt. filtered off rapidly gave moist III (R = R' = R'' = ON, R''' = Br) (XI). Freshly prepd. moist XI suspended in 20 cc. AcOH treated with Zn dust, the resulting light yellow soln. heated 5 min. with 1 cc. BzH, dild. with EtOH, treated with H2O, and kept overnight gave 0.1 g. III (R = R' = R'' = PhCH:N, R''' = Br), m. 210-11° (decompn.) (dil. EtOH). V (1.5 g.) in 15 cc. 50% HBr treated with 0.4 g. NaNO2 at 0-5° and the resulting diazonium soln. coupled with 2-naphthol gave XII. 2,4-Diaminothiazole and 4 g. BzCH2Br (XIII) in 250 cc. EtOH kept 1 hr. deposited 2.5 g. XIV (R = NH2), m. 244° (decompn.) (H2O with C). XIV (R = NH2) (1.5 g.) heated 2 hrs. with concd. HBr and cooled deposited 0.7 g. XIV (R = OH), m. 212° (decompn.) (EtOH). XIV (R = NH2) (3.1 g.) dissolved in 200 cc. boiling H2O, the soln. treated with satd. aq. NaOAc, the resinous product dissolved in EtOH, and the soln. treated with 1 cc. concd. HNO3 gave 2.5 g. 3-hydroxy-6-phenylimidazo [2,1-b]thiazole, m. 183° (decompn.). 2-Amino-4-methyl-5-carbethoxythiazole (3.7 g.) and 4 g. XIII in 50 cc. EtOH heated 30 hrs., cooled, the ppt. filtered off, suspended in H2O, and the suspension heated with NaOAc and cooled gave 4.7 g. XV (R = OEt), m. 144-5° (EtOH). XV (R = OEt) (1.4 g.) and 1 cc. 100% N2H4.H2O in 10 cc. EtOH heated 10 hrs. at 70° and cooled gave 0.9 g. XV (R = NHNH2) (XVI), m. 235° (EtOH). XVI (1.4 g.) in 8 cc. AcOH treated with 0.4 g. NaNO2 and dild. with 100 cc. H2O gave 1 g. XV (R = N3), decompd. when heated. XV (R = N3) (1.4 g.) in 15 cc. AcOH and 15 cc. Ac2O heated until N evolution ceased, poured into 400 cc. H2O, and treated dropwise with 2N NaOH until a flocculent ppt. sepd. gave 0.7 g. 2-acetamido-3-methyl-6-phenylimidazo [2, 1-b] thiazole, m. 225° (decompn.) (EtOH with C).

IT **92905-61-8**, Imidazo[2,1-b]thiazole, 5-acetamido-6-(p-bromophenyl)- (prepn. of)

RN 92905-61-8 HCAPLUS

CN Imidazo[2,1-b]thiazole, 5-acetamido-6-(p-bromophenyl)- (7CI) (CA INDEX NAME)

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L4          20 S L3
L5         397 S L3 FULL

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               S L7

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L9           2 S L8

     FILE 'REGISTRY' ENTERED AT 18:21:22 ON 14 MAY 2004
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L11         6 S L10
L12        87 S L10 FULL

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L14         3 S L13 AND GERLACH, M?/AU
L15        13 S L13 NOT L14
L16         0 S L15 AND MAUL,C?/AU

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L17         2 L12

=> d l17, all, 1-1

L17  ANSWER 1 OF 2  CAOLD  COPYRIGHT 2004 ACS on STN
AN   CA58:2443e  CAOLD
TI   bicyclic heterocyclic compds with a common N atom - (IV)
     aminoimidazo[2,1-b]thiazoles
AU   Pyl, Theodor; Wuensch, K. H.; Buelling, L.; Beyer, H.
IT  74416-91-4  88855-97-4  88855-99-6  91183-08-3  91394-83-1  91394-84-2
     91635-13-1  92286-32-3  92545-85-2  93327-30-1  93819-53-5  93869-37-5
     94463-22-6  94574-43-3  94622-88-5  94802-80-9  94802-82-1  94994-64-6
     95315-23-4  95315-26-7  96984-80-4  96986-17-3  97026-49-8 111164-78-4
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=> d l17, all, 1-2

L17  ANSWER 1 OF 2  CAOLD  COPYRIGHT 2004 ACS on STN
AN   CA58:2443e  CAOLD
TI   bicyclic heterocyclic compds with a common N atom - (IV)
     aminoimidazo[2,1-b]thiazoles
AU   Pyl, Theodor; Wuensch, K. H.; Buelling, L.; Beyer, H.
IT  74416-91-4  88855-97-4  88855-99-6  91183-08-3  91394-83-1  91394-84-2
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     94463-22-6  94574-43-3  94622-88-5  94802-80-9  94802-82-1  94994-64-6
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L17  ANSWER 2 OF 2  CAOLD  COPYRIGHT 2004 ACS on STN
AN   CA56:2442g  CAOLD
TI   phenoxazines - (V) syntheses of 7-amino-2-phenoxazones
AU   Musso, Hans; Wager, P.
IT    493-42-5   1916-58-1   2835-97-4   3950-31-0  26103-30-0  26103-31-1
     53669-94-6  53669-95-7  53669-97-9  67862-51-5  92060-74-7  92102-80-2
     92149-10-5  92149-30-9  92149-31-0  92437-82-6  92873-56-8  92905-61-8
     93014-15-4  93431-78-8  93986-16-4  94538-61-1  94709-90-7  94906-40-8
     95019-65-1  98016-21-8  98396-82-8


=> fil reg; d acc 95315-23-4; fil CAOLD

FILE 'REGISTRY' ENTERED AT 18:23:34 ON 14 MAY 2004


ANSWER 1  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   95315-23-4  REGISTRY
CN   Urea, 1-[6-(p-bromophenyl)imidazo[2,1-b]thiazol-5-yl]-3-phenyl-  (7CI)  (CA
     INDEX NAME)
FS   3D CONCORD
MF   C18 H13 Br N4 O S
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS
         (*File contains numerically searchable property data)
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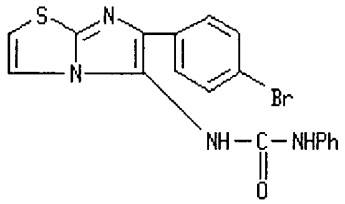


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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               1 REFERENCES IN FILE CA (1907 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)



FILE 'CAOLD' ENTERED AT 18:23:35 ON 14 MAY 2004
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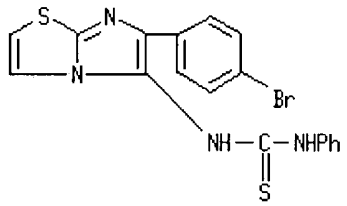
=> fil reg; d acc 95315-26-7; fil CAOLD

FILE 'REGISTRY' ENTERED AT 18:23:45 ON 14 MAY 2004

ANSWER 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 95315-26-7 REGISTRY
CN Urea, 1-[6-(p-bromophenyl)imidazo[2,1-b]thiazol-5-yl]-3-phenyl-2-thio-
(7CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H13 Br N4 S2
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

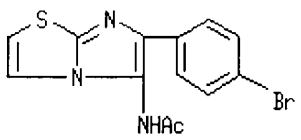
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

FILE 'CAOLD' ENTERED AT 18:23:45 ON 14 MAY 2004

=> fil reg; d acc 92905-61-8; fil CAOLD

FILE 'REGISTRY' ENTERED AT 18:23:51 ON 14 MAY 2004

ANSWER 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 92905-61-8 REGISTRY
CN Imidazo[2,1-b]thiazole, 5-acetamido-6-(p-bromophenyl)- (7CI) (CA INDEX
NAME)
FS 3D CONCORD
MF C13 H10 Br N3 O S
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

FILE 'CAOLD' ENTERED AT 18:23:52 ON 14 MAY 2004

=> **file reg**

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	413.68

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-11.09

FILE 'REGISTRY' ENTERED AT 18:23:56 ON 14 MAY 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 13 MAY 2004 HIGHEST RN 681515-11-7
DICTIONARY FILE UPDATES: 13 MAY 2004 HIGHEST RN 681515-11-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
L18 STRUCTURE UPLOADED

=> **d l18**
L18 HAS NO ANSWERS
L18 STR

=> **s l18**
SAMPLE SEARCH INITIATED 18:29:20 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 494 TO ITERATE

100.0% PROCESSED 494 ITERATIONS 20 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 8547 TO 11213
PROJECTED ANSWERS: 132 TO 668

L19 20 SEA SSS SAM L18

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=> s l18 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 18:29:27 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -  10474 TO ITERATE

100.0% PROCESSED   10474 ITERATIONS                          409 ANSWERS
SEARCH TIME: 00.00.01

L20         409 SEA SSS FUL L18

=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   158.78     572.46

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00     -11.09

FILE 'HCAPLUS' ENTERED AT 18:29:30 ON 14 MAY 2004
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FILE COVERS 1907 - 14 May 2004  VOL 140 ISS 21
FILE LAST UPDATED: 13 May 2004  (20040513/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.


=> s l20/thu
            81 L20
        592681 THU/RL
L21          9 L20/THU
                 (L20 (L) THU/RL)

=> s l21 and gerlach, m?/au
           233 GERLACH, M?/AU
L22          3 L21 AND GERLACH, M?/AU

=> d l22, ibib abs fhitstr, 1-3

L22  ANSWER 1 OF 3  HCAPLUS  COPYRIGHT 2004 ACS on STN
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ACCESSION NUMBER:         2001:798222  HCAPLUS
DOCUMENT NUMBER:          135:344484
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TITLE: Preparation of N-acylimidazopyridineamine chlorides and analogs as μ-opiate receptor ligands
INVENTOR(S): **Gerlach, Matthias**; Maul, Corinna
PATENT ASSIGNEE(S): Gruenenthal G.m.b.H., Germany
SOURCE: PCT Int. Appl., 83 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001081344	A1	20011101	WO 2001-EP3772	20010403
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 10019714	A1	20020110	DE 2000-10019714	20000420
EP 1274709	A1	20030115	EP 2001-931560	20010403
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003531208	T2	20031021	JP 2001-578434	20010403
NO 2002004838	A	20021007	NO 2002-4838	20021007
US 2003119842	A1	20030626	US 2002-273344	20021018

PRIORITY APPLN. INFO.: DE 2000-10019714 A 20000420
WO 2001-EP3772 W 20010403
OTHER SOURCE(S): MARPAT 135:344484
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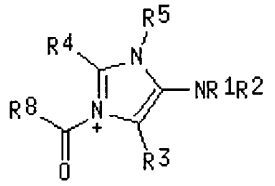
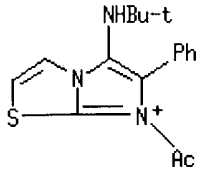


I

AB Title compds. (ICl-)[II; R1 = CMe3, cyclohexyl, CH2CO2Me, (un)substituted Ph, etc.; R2 = H or alkanoyl; R3 = Me, Ph, 2-furyl, 2-pyridinyl, etc.; R4R5 = (un)substituted CH:CHCH:CH, CH:NCH:CH, N:CHCH:CH, etc.; R8 = (cyclo)alkyl] were prepd. Thus, 2-aminopyridine was cyclocondensed with Me3CNC and PhCHO to give, after N-acylation, II (R1 = CMe3, R2 = H, R3 = Ph, R4R5 = CH:CHCH:CH, R8 = Me). Data for biol. activity of II were given.

IT **370858-36-9P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of N-acylimidazopyridineamine chlorides and analogs as μ-opiate receptor ligands)
RN 370858-36-9 HCAPLUS

CN Imidazo[2,1-b]thiazolium, 7-acetyl-5-[(1,1-dimethylethyl)amino]-6-phenyl-, chloride (9CI) (CA INDEX NAME)



Cl^-

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L22 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2001:283961 HCAPLUS
DOCUMENT NUMBER: 134:295826
TITLE: Preparation of imidazopyridineamines and analogs as analgesics
INVENTOR(S): **Gerlach, Matthias**; Maul, Corinna
PATENT ASSIGNEE(S): Gruenenthal G.m.b.H., Germany
SOURCE: PCT Int. Appl., 30 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001027119	A2	20010419	WO 2000-EP9098	20000918
WO 2001027119	A3	20011011		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19948434	A1	20010607	DE 1999-19948434	19991008
PT 1218378	T	20030930	PT 2000-969439	20001006
ES 2198355	T3	20040201	ES 2000-969439	20001006
ZA 2002003579	A	20030806	ZA 2002-3579	20020506

PRIORITY APPLN. INFO.: DE 1999-19948434 A 19991008
OTHER SOURCE(S): MARPAT 134:295826
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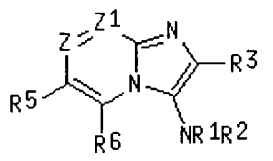


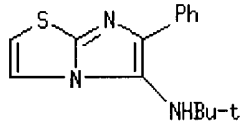
I

AB Substance libraries comprising, e.g., I [R1 = CMe3, cycloalkyl, (un)substituted Ph, etc.; R2 = H, cycloalkyl, alkanoyl, etc.; R3 = (cyclo)alkyl, (un)substituted (hetero)aryl, etc.; R5,R6 = H, halo, alkyl, alkoxy, etc.; Z = N or CR10; Z1 = N or CR9; R9,R10 = groups cited for R5; Z = N ≠ Z1; Z1 = N ≠ Z] were prepd. Thus, pyridine-2-amine was cyclocondensed with cyclohexanecarboxaldehyde and tert-Bu isocyanide to give I (R1 = CMe3, R2 = R5 = R6 = H, R3 = cyclohexyl, Z = Z1 = CH). Data for biol. activity of I were given.

IT **214531-41-6P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of imidazopyridineamines and analogs as analgesics)

RN 214531-41-6 HCAPLUS

CN Imidazo[2,1-b]thiazol-5-amine, N-(1,1-dimethylethyl)-6-phenyl- (9CI) (CA INDEX NAME)



L22 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2001:283960 HCAPLUS
DOCUMENT NUMBER: 134:295829
TITLE: Preparation of aminoimidazo[2,1-b]thiazoles, -pyrazoles, and -triazoles as analgesics
INVENTOR(S): **Gerlach, Matthias**; Maul, Corinna
PATENT ASSIGNEE(S): Gruenenthal G.m.b.H., Germany
SOURCE: PCT Int. Appl., 56 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001027118	A2	20010419	WO 2000-EP9097	20000918
WO 2001027118	A3	20010920		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19948434	A1	20010607	DE 1999-19948434	19991008
DE 19948436	A1	20010607	DE 1999-19948436	19991008
BR 2000014817	A	20020618	BR 2000-14817	20000918
EP 1218383	A2	20020703	EP 2000-967693	20000918
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				

JP 2003511456	T2	20030325	JP 2001-530336		20000918
NZ 518390	A	20031031	NZ 2000-518390		20000918
NO 2002001566	A	20020527	NO 2002-1566		20020403
US 2002183320	A1	20021205	US 2002-117335		20020408
US 6657064	B2	20031202			
US 2004023927	A1	20040205	US 2003-633579		20030805
PRIORITY APPLN. INFO.:			DE 1999-19948434	A	19991008
			DE 1999-19948436	A	19991008
			DE 1999-19948438	A	19991008
			WO 2000-EP9097	W	20000918
			US 2002-117335	A3	20020408

OTHER SOURCE(S): MARPAT 134:295829
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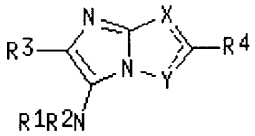
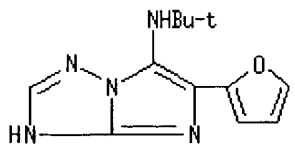


I

AB Title compds. [I; R1 = CMe3, cyanohexyl, (substituted) Ph, cycloalkyl, etc.; R2 = H, (branched) (substituted) alkylcarbonyl, Ph, naphthyl, pyridyl, thiazolyl, furoyl, etc.; R3 = (branched) alkylcycloalkyl, (substituted) Ph, naphthyl, quinolinyl, anthracenyl, phenanthrenyl, etc.; X = CR5, N, S; Y = N, but when X = S, Y = CR6, N; R4, R5, R6 = H, (branched) alkyl, halo, CF3, cyano, NO2, amino, etc.], were prepd. Using a Zymark robotic synthesis system, 3-amino-1,2,4-triazole and HClO4 in CH2Cl2, furfural in CH2Cl2, and tert-butylisonitrile in CH2Cl2 were added successively to a reactor tube at 15° followed by 11 h stirring at 15° to give tert-butyl-(5-furan-2-yl-imidazo[1,2-b][1,2,4]triazol-6-yl)amine. Several I at 10 μM showed 34-77% α2 adrenoceptor affinity.

IT **334771-60-7P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of aminoimidazothiazoles, -pyrazoles, and -triazoles as analgesics)

RN 334771-60-7 HCAPLUS
CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-(2-furanyl)- (9CI) (CA INDEX NAME)



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(FILE 'HOME' ENTERED AT 18:13:10 ON 14 MAY 2004)

FILE 'REGISTRY' ENTERED AT 18:13:33 ON 14 MAY 2004
L1 STRUCTURE UPLOADED
L2 26 S L1

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L3              STRUCTURE UPLOADED
L4           20 S L3
L5          397 S L3 FULL

     FILE 'HCAPLUS' ENTERED AT 18:19:57 ON 14 MAY 2004
L6           75 S L5
L7              STRUCTURE UPLOADED
                S L7

     FILE 'REGISTRY' ENTERED AT 18:21:18 ON 14 MAY 2004
L8            6 S L7

     FILE 'HCAPLUS' ENTERED AT 18:21:19 ON 14 MAY 2004
L9            2 S L8

     FILE 'REGISTRY' ENTERED AT 18:21:22 ON 14 MAY 2004
L10             STRUCTURE UPLOADED
L11           6 S L10
L12          87 S L10 FULL

     FILE 'HCAPLUS' ENTERED AT 18:21:47 ON 14 MAY 2004
L13          16 S L12
L14           3 S L13 AND GERLACH, M?/AU
L15          13 S L13 NOT L14
L16           0 S L15 AND MAUL,C?/AU

     FILE 'CAOLD' ENTERED AT 18:23:05 ON 14 MAY 2004
L17           2 S L12

     FILE 'REGISTRY' ENTERED AT 18:23:34 ON 14 MAY 2004

     FILE 'CAOLD' ENTERED AT 18:23:35 ON 14 MAY 2004

     FILE 'REGISTRY' ENTERED AT 18:23:45 ON 14 MAY 2004

     FILE 'CAOLD' ENTERED AT 18:23:45 ON 14 MAY 2004

     FILE 'REGISTRY' ENTERED AT 18:23:51 ON 14 MAY 2004

     FILE 'CAOLD' ENTERED AT 18:23:52 ON 14 MAY 2004

     FILE 'REGISTRY' ENTERED AT 18:23:56 ON 14 MAY 2004
L18             STRUCTURE UPLOADED
L19          20 S L18
L20         409 S L18 FULL

     FILE 'HCAPLUS' ENTERED AT 18:29:30 ON 14 MAY 2004
L21           9 S L20/THU
L22           3 S L21 AND GERLACH, M?/AU

=> s l21 not l22
L23           6 L21 NOT L22

=> s l23 and maul, c?/au
            93 MAUL, C?/AU
L24           0 L23 AND MAUL, C?/AU

=> d l23, ibib abs fhitstr, 1-6

L23  ANSWER 1 OF 6  HCAPLUS  COPYRIGHT 2004 ACS on STN
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Full Text | Citing References

ACCESSION NUMBER: 2003:971725 HCAPLUS
DOCUMENT NUMBER: 140:35893
TITLE: Transcription factor modulating compounds and methods of use thereof
INVENTOR(S): Levy, Stuart B.; Alekshun, Michael N.; Podlogar, Brent L.; Ohemeng, Kwasi; Verma, Atul K.; Warchol, Tadeusz; Bhatia, Beena
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 301 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003229065	A1	20031211	US 2002-139591	20020814
WO 2004001058	A2	20031231	WO 2002-US14255	20020506

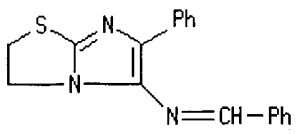
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2001-288660P P 20010504
OTHER SOURCE(S): MARPAT 140:35893

AB Methods for identifying compd. useful as anti-infectives that decrease resistance, virulence, or growth of microbes are provided. In one embodiment, the method comprises contacting a microbial cell comprising: (1) a selectable marker under the control of a transcription factor responsive element and (2) a transcription factor, with a compd. under conditions which allow interaction of the compd. with the microbial cell; and measuring the ability of the compd. to affect the growth or survival of the microbial cell as an indication of whether the test compd. modulates the activity of a transcription factor.

IT **106726-42-5**
RL: PAC (Pharmacological activity); **THU (Therapeutic use)**; BIOL (Biological study); USES (Uses)
(transcription factor modulating compds. as anti-infectives agents that decrease resistance and virulence and growth identified by detg. marker under control of responsive element)

RN 106726-42-5 HCAPLUS
CN Imidazo[2,1-b]thiazol-5-amine, 2,3-dihydro-6-phenyl-N-(phenylmethylene)-(9CI) (CA INDEX NAME)



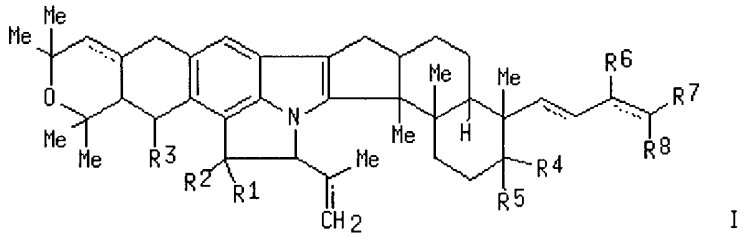
L23 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2003:507684 HCAPLUS
DOCUMENT NUMBER: 139:85530
TITLE: Preparation of C1 to c4 side-chain modified nodulisporic acid analogs as anthelmintic agents
INVENTOR(S): Shih, Thomas; Colletti, Steven L.; Fisher, Michael H.; Meinke, Peter T.; Kuo, Howard C. H.; Chakravarty, Prasun K.; Wyvratt, Matthew J.; Tyagarajan, Sriram; Berger, Richard
PATENT ASSIGNEE(S): Merck & Co., Inc., USA
SOURCE: U.S., 57 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6586452	B1	20030701	US 2001-901266	20010709

PRIORITY APPLN. INFO.: US 2000-218398P P 20000714
OTHER SOURCE(S): MARPAT 139:85530
GI



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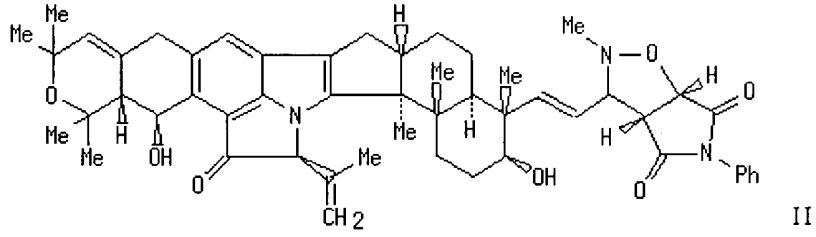


II

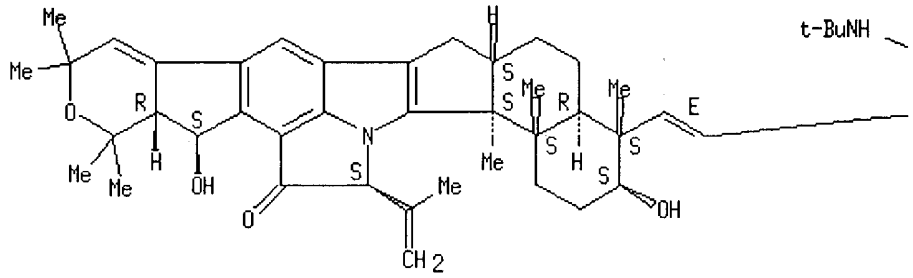
AB Nodulisporic acid derivs., such as I [R1 = H, alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heterocyclyl; R2-R4 = (substituted) OH; R1R2 = O; R5 = H, (substituted) OH; R4R5 = O; R6-R8 = H, alkyl, alkenyl, aryl, cycloalkyl, halo, CN acyl, amino, etc.] were prepd. The compds. were acaricidal, antiparasitic, insecticidal and anthelmintic agents. Thus, nodulisporic acid deriv. II was prepd. via a multistep synthetic sequence starting from nodulisporic acid A, N-methylhydroxylamine hydrochloride and N-phenyl-maleimide.

IT **552836-27-8P**
RL: AGR (Agricultural use); PAC (Pharmacological activity); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of C1 to c4 side-chain modified nodulisporic acid analogs as anthelmintic agents)
RN 552836-27-8 HCAPLUS
CN 1H-Benz[6,7]indeno[1,2-b]pyrano[3',4':4,5]cyclopenta[1,2-f]pyrrolo[3,2,1-

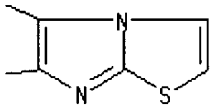
hi]indol-14(15H)-one, 4-[(1E)-2-[5-[(1,1-dimethylethyl)amino]imidazo[1,2-b]thiazol-6-yl]ethenyl]-2,3,4,4a,5,6,6a,7,10,12,12a,13,16b,16c-tetradecahydro-3,13-dihydroxy-4,10,10,12,12,16b,16c-heptamethyl-15-(1-methylethenyl)-, (3S,4S,4aR,6aS,12aR,13S,15S,16bS,16cS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



PAGE 1-B



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

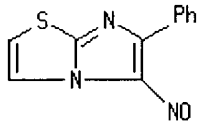
L23 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2002:488374 HCAPLUS
DOCUMENT NUMBER: 137:179390
TITLE: Cardiovascular Characterization of [1,4]Thiazino[3,4-c][1,2,4]oxadiazol-1-one Derivatives: Selective Myocardial Calcium Channel Modulators
AUTHOR(S): Budriesi, Roberta; Cosimelli, Barbara; Ioan, Pierfranco; Lanza, Camilla Zaira; Spinelli, Domenico; Chiarini, Alberto
CORPORATE SOURCE: Dipartimento di Scienze Farmaceutiche, Universita di Bologna, Bologna, 40126, Spain
SOURCE: Journal of Medicinal Chemistry (2002), 45(16), 3475-3481
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB As an extension of previous investigations (Tetrahedron 1999, 55, 5433-5440; J. Heterocycl. Chem. 2000, 37, 875-878), a series of 21 [1,4]thiazino[3,4-c][1,2,4]oxadiazolones, which has already been synthesized (except for tree compds.), was evaluated as calcium entry blockers by functional studies, namely, in isolated guinea-pig left and right atria and K+-depolarized aortic strips. With the aim of investigating the effect of a condensed benzene ring on the mol. structure. The results obtained show that many of the compds. studied are potent and selective neg. inotropic agents; in particular, two compds. are about 3- and 2-fold more potent than diltiazem, resp.

IT **16311-34-5P**
RL: PAC (Pharmacological activity); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(thiazinooxadiazolone derivs. inotropic calcium channel modulating-structure in relation to drug design)
RN 16311-34-5 HCAPLUS
CN Imidazo[2,1-b]thiazole, 5-nitroso-6-phenyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



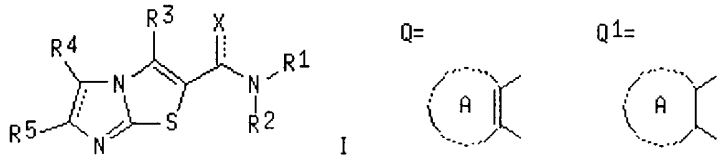
REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN
Full Text | Citing References

ACCESSION NUMBER: 2002:270662 HCAPLUS
DOCUMENT NUMBER: 136:294827
TITLE: Preparation of imidazothiazole derivatives as ligands for metabotropic glutamate receptor
INVENTOR(S): Hayashibe, Satoshi; Itahana, Hirotsune; Okada, Shoji; Ohara, Atsuyuki; Negoro, Kenji; Nozawa, Shigenori; Kamikubo, Takashi; Sakamoto, Shuichi
PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002105085	A2	20020410	JP 2000-296124	20000928

PRIORITY APPLN. INFO.: JP 2000-296124 20000928
OTHER SOURCE(S): MARPAT 136:294827
GI



AB The title compds. [I; R1, R2 = H, lower alkyl, cycloalkyl; R3 = H, lower alkyl; R4, R5 = H, halo, NO2, (un)substituted lower alkyl, aryl, heteroaryl, COR9, NHCO-O-lower alkyl, CR8:CR6R7, CR8R5aC(:CH2)R7; or R4 and R5 together represent Q, Q1; ring A = (un)substituted carbocyclic or arom. heterocyclic ring optionally possessing 1 or 2 double bond(s), wherein the ring atoms are carbon atoms or may contain 1-3 heteroatoms; R6, R7 = H, (un)substituted lower alkyl, aryl, or heteroaryl, lower alkoxycarbonyl, COR9, or R6 and R7 are combined together to represent cycloalkyl or (un)satd. heterocyclic ring; R6a = NR10R11; wherein R10, R11

= H, (un)substituted lower alkyl or R10 and R11 together form (un)substituted heteroaryl or satd. heterocyclic ring; X = O, H] or pharmacol. acceptable salts thereof are prepd. These compds. are useful as agonists and/or antagonists for metabotropic glutamate receptor (mGluR1), in particular in the prevention or treatment of cerebral infarction (no data). Thus, a soln. of 2.5 g Et imidazo[2,1-b]thiazole-2-carboxylate in 100 mL methanol was treated with 30 mL 1 M aq. NaOH, stirred at room temp. for 2 h, refluxed for 15 min, cooled to room temp., and treated with 1 M aq. HCl followed by distg. off the solvent under reduced pressure, to give crude imidazo[2,1-b]thiazole-2-carboxylic acid hydrochloride (II). II was dissolved in 30 mL DMF, treated with 3.3 mL N-methylmorpholine and 1.43 mL Et chloroformate at -10°, and stirred at the same temp. for 3 h to give, after workup and conversion into the HCl salt, N-cyclohexyl-N-methylimidazo[2,1-b]thiazole-2-carboxamide hydrochloride.

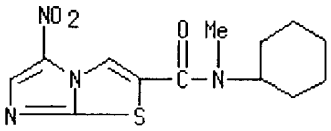
IT **409061-96-7P**

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of imidazothiazole derivs. as ligands for metabotropic glutamate receptor in prevention or treatment of cerebral infarction)

RN 409061-96-7 HCAPLUS

CN Imidazo[2,1-b]thiazole-2-carboxamide, N-cyclohexyl-N-methyl-5-nitro- (9CI) (CA INDEX NAME)



L23 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2000:619076 HCAPLUS
DOCUMENT NUMBER: 134:256
TITLE: Potential antitumor agents. part 29: synthesis and potential coanthracyclinic activity of Imidazo[2,1-b]thiazole guanylhydrazones
AUTHOR(S): Andreani, A.; Leoni, A.; Locatelli, A.; Morigi, R.; Rambaldi, M.; Recanatini, M.; Garaliene, V.
CORPORATE SOURCE: Dipartimento di Scienze Farmaceutiche, Universita di Bologna, Bologna, 40126, Italy
SOURCE: Bioorganic & Medicinal Chemistry (2000), 8(9), 2359-2366
CODEN: BMECEP; ISSN: 0968-0896
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 134:256

AB This paper reports the synthesis of new imidazo[2,1-b]thiazole guanylhydrazones which were tested as potential antitumor agents. Three of these derivs. (those bearing a 3- or 4-nitrophenyl group) were the most potent and one of these showed a mild effect as cyclin-dependent kinase 1 (CDK1) inhibitor. These same three derivs. were also tested as pos. inotropic agents and two of them were more potent than amrinone at 10-5 M. These two guanylhydrazones could be useful coanthracyclinic agents.

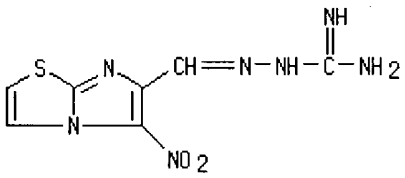
IT **308121-59-7P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(synthesis and potential coanthracyclinic activity of Imidazo[b]thiazole guanylhydrazones as potential antitumor agents with pos. inotropic activity in relation to cyclin-dependent kinase 1 inhibition)

RN 308121-59-7 HCAPLUS

CN Hydrazinecarboximidamide, 2-[(5-nitroimidazo[2,1-b]thiazol-6-yl)methylene]-, tetrahydrochloride (9CI) (CA INDEX NAME)



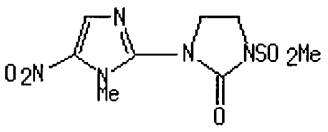
4 HCl

REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1984:603875 HCAPLUS
DOCUMENT NUMBER: 101:203875
TITLE: Nitroimidazoles: part XIX - structure-activity relationships
AUTHOR(S): Nagarajan, K.; Arya, V. P.; George, T.; Nair, M. D.; Sudarsanam, V.; Ray, D. K.; Shrivastava, V. B.
CORPORATE SOURCE: Res. Cent., CIBA-GEIGY, Bombay, 400 063, India
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1984), 23B(4), 342-62
CODEN: IJSBDB; ISSN: 0376-4699
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB A variety of nitroimidazoles, mostly 1,2-disubstituted-5-nitro derivs. were examd. for in vitro activity against Entamoeba histolytica and for effectiveness in treating early hepatic infection in golden hamsters. Many compds. carried a functionalized N atom at position 2. In vivo activity was obsd. with 1-alkyl-5-nitroimidazoles carrying a substituted imidazolidinone or imidazole. Among these derivs., 1-methylsulfonyl-3-(1-methyl-5-nitro-2-imidazolyl)-2-imidazolidinone (I) [56302-13-7] was the most potent against hepatic and caecal infections of E. histolytica in the golden hamster and Trichomonas foetus infections in mice. It was developed as a drug for treatment of amoebiasis, giardiasis, and trichomoniasis. The structure-antiamebic activity relationships of the

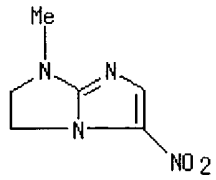
nitroimidazoles are discussed.

IT **65092-06-0**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); **THU (Therapeutic use)**; BIOL (Biological study); USES (Uses)
(amebicidal activity of, structure in relation to)

RN 65092-06-0 HCAPLUS

CN 1H-Imidazo[1,2-a]imidazole, 2,3-dihydro-1-methyl-5-nitro- (9CI) (CA INDEX NAME)



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FILE LAST UPDATED: 01 May 1997 (19970501/UP)

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L3 STRUCTURE UPLOADED
L4 20 S L3
L5 397 S L3 FULL

FILE 'HCAPLUS' ENTERED AT 18:19:57 ON 14 MAY 2004
L6 75 S L5

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L7              STRUCTURE UPLOADED
                S L7

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L9            2 S L8

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L12          87 S L10 FULL

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L14           3 S L13 AND GERLACH, M?/AU
L15          13 S L13 NOT L14
L16           0 S L15 AND MAUL,C?/AU

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     FILE 'CAOLD' ENTERED AT 18:23:52 ON 14 MAY 2004

     FILE 'REGISTRY' ENTERED AT 18:23:56 ON 14 MAY 2004
L18             STRUCTURE UPLOADED
L19          20 S L18
L20         409 S L18 FULL

     FILE 'HCAPLUS' ENTERED AT 18:29:30 ON 14 MAY 2004
L21           9 S L20/THU
L22           3 S L21 AND GERLACH, M?/AU
L23           6 S L21 NOT L22
L24           0 S L23 AND MAUL, C?/AU

     FILE 'CAOLD' ENTERED AT 18:31:00 ON 14 MAY 2004

=> s 120
L25           6 L20

=> d 125, all, 1-6

L25  ANSWER 1 OF 6  CAOLD  COPYRIGHT 2004 ACS on STN
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Full Text

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AN   CA64:2093g  CAOLD
TI   1-substituted-2-acyl-5-nitroimidazoles
AU   Henry, David W.; Hoff, D. R.
DT   Patent
```

TI 2-acyl-5-nitroimidazoles (1-substituted)
PA Merck & Co., Inc.
DT Patent

PATENT NO.	KIND	DATE
BE 661262		
NL 6503442		

IT 1563-99-1 4224-56-0 4750-32-7 4750-33-8 4750-34-9 4750-35-0
4750-36-1 4750-37-2 4750-38-3 4750-39-4 4750-54-3 4750-55-4
4750-56-5 4750-57-6 4750-58-7 4750-59-8 4812-30-0 4812-31-1
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4994-22-3 5605-52-7 7760-43-2 10213-26-0 13489-37-7 21741-90-2

L25 ANSWER 2 OF 6 CAOLD COPYRIGHT 2004 ACS on STN
AN CA58:2443e CAOLD
TI bicyclic heterocyclic compds with a common N atom - (IV) aminoimidazo[2,1-b]thiazoles
AU Pyl, Theodor; Wuensch, K. H.; Buelling, L.; Beyer, H.
IT 74416-91-4 **88855-97-4** **88855-99-6** **91183-08-3** **91394-83-1**
91394-84-2 **91635-13-1** **92286-32-3** **92545-85-2** **93327-30-1**
93819-53-5 **93869-37-5** **94463-22-6** **94574-43-3** **94622-88-5**
94802-80-9 **94802-82-1** **94994-64-6** **95315-23-4** **95315-26-7**
96984-80-4 **96986-17-3** **97026-49-8** 111164-78-4

L25 ANSWER 3 OF 6 CAOLD COPYRIGHT 2004 ACS on STN
AN CA58:2442g CAOLD
TI bicyclic heterocyclic compds. with a common N atom - (III) nitrosation and azo coupling of 6-phenylimidazo[2,1-b]thiazoles
AU Pyl, Theodor; Wuensch, K. H.; Beyer, H.
IT **14954-66-6** **14956-60-6** **14956-61-7** **16311-34-5** 27129-49-3
91065-26-8 91330-92-6 **91493-98-0** **91493-99-1** 91494-00-7
91902-04-4 92697-08-0 92905-62-9 **93191-39-0** **93329-14-7** **95024-60-5**

L25 ANSWER 4 OF 6 CAOLD COPYRIGHT 2004 ACS on STN
AN CA56:2442g CAOLD
TI phenoxazines - (V) syntheses of 7-amino-2-phenoxazones
AU Musso, Hans; Wager, P.
IT 493-42-5 1916-58-1 2835-97-4 3950-31-0 26103-30-0 26103-31-1
53669-94-6 53669-95-7 53669-97-9 67862-51-5 92060-74-7 92102-80-2
92149-10-5 92149-30-9 92149-31-0 92437-82-6 92873-56-8 **92905-61-8**
93014-15-4 93431-78-8 93986-16-4 94538-61-1 94709-90-7 94906-40-8
95019-65-1 98016-21-8 98396-82-8

L25 ANSWER 5 OF 6 CAOLD COPYRIGHT 2004 ACS on STN
AN CA55:27354d CAOLD
TI condensed polymethylene derivs. of heterocycles based on lactams - (V) synthesis of 8,9-tri- and tetramethylenepurines
AU Glushkov, R. G.; Magidson, O. Yu.
IT 4430-74-4 5654-82-0 98490-26-7 108106-76-9 108128-97-8 108249-28-1
108480-63-3 109442-37-7 109497-99-6 109498-00-2 109510-96-5 109817-54-1
109848-37-5 109868-78-2 117888-87-6 118802-01-0 **118950-56-4**
118950-57-5 130936-42-4

L25 ANSWER 6 OF 6 CAOLD COPYRIGHT 2004 ACS on STN
AN CA55:24726d CAOLD
TI bicyclic heterocyclic compds. with a common N atom - (I) imidazo[2,1-b]-thiazoles
AU Pyl, Theodor; Giebelmann, R.; Beyer, H.

IT 7120-13-0 51226-37-0 51226-38-1 **91493-98-0** 92082-02-5 99866-35-0
99866-92-9 100377-88-6 101717-13-9 101869-59-4 102060-51-5 102754-24-5
103165-68-0 105789-87-5 105790-09-8 107518-43-4 108482-95-7 108979-82-4
109189-29-9 109222-28-8 109847-19-0 114930-59-5 115051-00-8 118685-43-1
118978-77-1 119658-48-9

=> fil reg; d acc 4812-34-4; fil CAOLD

FILE 'REGISTRY' ENTERED AT 18:31:23 ON 14 MAY 2004

ANSWER 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 4812-34-4 REGISTRY
CN 5H-Pyrrolo[1,2-a]imidazole, 6,7-dihydro-3-nitro- (7CI, 8CI, 9CI) (CA INDEX NAME)
FS 3D CONCORD
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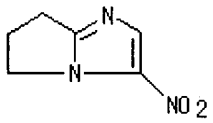
LC STN Files: CA, CAOLD, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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=> fil reg; d acc 4812-35-5; fil CAOLD

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ANSWER 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 4812-35-5 REGISTRY
CN 7H-Pyrrolo[1,2-a]imidazol-7-one, 5,6-dihydro-3-nitro-, oxime (7CI, 8CI) (CA INDEX NAME)
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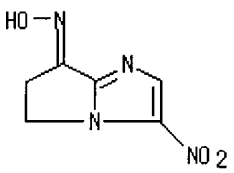
MF C6 H6 N4 O3
LC STN Files: CA, CAOLD, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

FILE 'CAOLD' ENTERED AT 18:31:43 ON 14 MAY 2004

=> fil reg; d acc 4812-36-6; fil CAOLD

FILE 'REGISTRY' ENTERED AT 18:31:50 ON 14 MAY 2004

ANSWER 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 4812-36-6 REGISTRY
CN 7H-Pyrrolo[1,2-a]imidazol-7-one, 5,6-dihydro-3-nitro-, semicarbazone (7CI, 8CI) (CA INDEX NAME)
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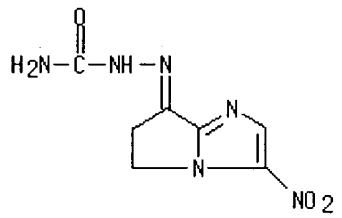
LC STN Files: CA, CAOLD, CAPLUS



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1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

FILE 'CAOLD' ENTERED AT 18:31:51 ON 14 MAY 2004

=> fil reg; d acc 4812-37-7; fil CAOLD

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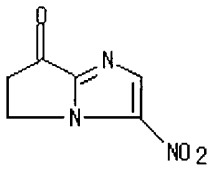
ANSWER 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 4812-37-7 REGISTRY
CN 7H-Pyrrolo[1,2-a]imidazol-7-one, 5,6-dihydro-3-nitro- (7CI, 8CI) (CA INDEX NAME)
FS 3D CONCORD
MF C6 H5 N3 O3
LC STN Files: CA, CAOLD, CAPLUS



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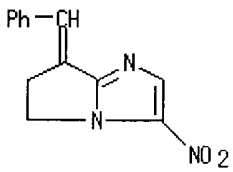
=> **fil reg; d acc 4994-22-3; fil CAOLD**

FILE 'REGISTRY' ENTERED AT 18:32:04 ON 14 MAY 2004

ANSWER 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 4994-22-3 REGISTRY
CN 5H-Pyrrolo[1,2-a]imidazole, 7-benzylidine-6,7-dihydro-3-nitro- (8CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 5H-Pyrrolo[1,2-a]imidazole, 7-benzylidene-6,7-dihydro-3-nitro- (7CI)
FS 3D CONCORD
MF C13 H11 N3 O2
LC STN Files: CA, CAOLD, CAPLUS



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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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=> **fil reg; d acc 88855-97-4; fil CAOLD**

FILE 'REGISTRY' ENTERED AT 18:32:23 ON 14 MAY 2004

ANSWER 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 88855-97-4 REGISTRY
CN Imidazo[2,1-b]thiazole, 5-amino-6-(p-aminophenyl)-2-methyl-, dipicrate

(7CI) (CA INDEX NAME)
MF C12 H12 N4 S . 2 C6 H3 N3 O7
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)

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CRN 88855-96-3
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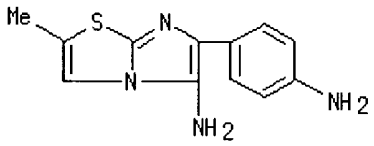

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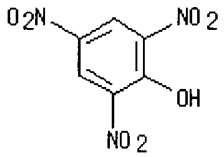

1 REFERENCES IN FILE CA (1907 TO DATE)
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1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	642.15

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-17.33

FILE 'REGISTRY' ENTERED AT 18:32:49 ON 14 MAY 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 13 MAY 2004 HIGHEST RN 681515-11-7
DICTIONARY FILE UPDATES: 13 MAY 2004 HIGHEST RN 681515-11-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

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L26 STRUCTURE UPLOADED

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L26 HAS NO ANSWERS
L26 STR

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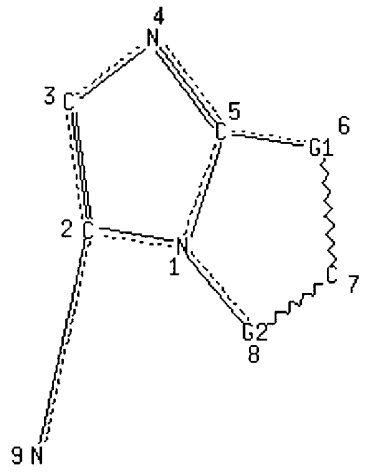
C 11 S 12 N 13
Page 1-A



Page 1-B

C 10
Page 3-A
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VAR G2=14/15
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NSPEC IS R AT 4
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NSPEC IS C AT 9
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MLEVEL IS CLASS AT 9 10
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 15

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STEREO ATTRIBUTES: NONE


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SAMPLE SEARCH INITIATED 18:33:49 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     492 TO ITERATE

100.0% PROCESSED     492 ITERATIONS                                 20 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          8510 TO    11170
PROJECTED ANSWERS:              132 TO      668

L27           20 SEA SSS SAM L26

=> s l26 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 18:33:58 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -  10461 TO ITERATE

100.0% PROCESSED   10461 ITERATIONS                               379 ANSWERS
SEARCH TIME: 00.00.01

L28          379 SEA SSS FUL L26

=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   155.84     797.99

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00     -17.33

FILE 'HCAPLUS' ENTERED AT 18:34:03 ON 14 MAY 2004
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 14 May 2004  VOL 140 ISS 21
FILE LAST UPDATED: 13 May 2004  (20040513/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.
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        592681 THU/RL
L29          9 L28/THU
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=> s l29 and analg?
         55467 ANALG?
L31          3 L29 AND ANALG?

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L31  ANSWER 1 OF 3  HCAPLUS  COPYRIGHT 2004 ACS on STN
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Full Text | Citing References

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ACCESSION NUMBER:         2001:798222  HCAPLUS
DOCUMENT NUMBER:          135:344484
TITLE:                    Preparation of N-acylimidazopyridineamine chlorides
                          and analogs as μ-opiate receptor ligands
INVENTOR(S):              Gerlach, Matthias; Maul, Corinna
PATENT ASSIGNEE(S):       Gruenenthal G.m.b.H., Germany
SOURCE:                   PCT Int. Appl., 83 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 German
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
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     WO 2001081344      A1   20011101       WO 2001-EP3772   20010403
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
             HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
             LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
             SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
             YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
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     DE 10019714        A1   20020110       DE 2000-10019714 20000420
     EP 1274709         A1   20030115       EP 2001-931560   20010403
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     JP 2003531208      T2   20031021       JP 2001-578434   20010403
     NO 2002004838      A    20021007       NO 2002-4838     20021007
     US 2003119842      A1   20030626       US 2002-273344   20021018
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OTHER SOURCE(S):          MARPAT 135:344484
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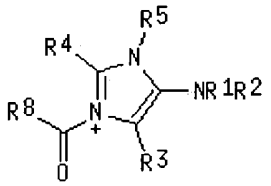


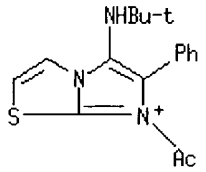
I

AB Title compds. (ICl-)[II; R1 = CMe3, cyclohexyl, CH2CO2Me, (un)substituted Ph, etc.; R2 = H or alkanoyl; R3 = Me, Ph, 2-furyl, 2-pyridinyl, etc.; R4R5 = (un)substituted CH:CHCH:CH, CH:NCH:CH, N:CHCH:CH, etc.; R8 = (cyclo)alkyl] were prepd. Thus, 2-aminopyridine was cyclocondensed with Me3CNC and PhCHO to give, after N-acylation, II (R1 = CMe3, R2 = H, R3 = Ph, R4R5 = CH:CHCH:CH, R8 = Me). Data for biol. activity of II were given.

IT 370858-36-9P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of N-acylimidazopyridineamine chlorides and analogs as μ-opiate receptor ligands)

RN 370858-36-9 HCAPLUS

CN Imidazo[2,1-b]thiazolium, 7-acetyl-5-[(1,1-dimethylethyl)amino]-6-phenyl-, chloride (9CI) (CA INDEX NAME)



Cl^-

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2001:283961 HCAPLUS
DOCUMENT NUMBER: 134:295826
TITLE: Preparation of imidazopyridineamines and analogs as **analgesics**
INVENTOR(S): Gerlach, Matthias; Maul, Corinna
PATENT ASSIGNEE(S): Gruenenthal G.m.b.H., Germany
SOURCE: PCT Int. Appl., 30 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

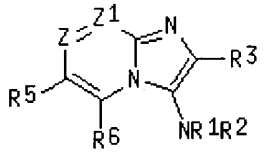
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001027119	A2	20010419	WO 2000-EP9098	20000918
WO 2001027119	A3	20011011		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN,

IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,
SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ,
BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

DE 19948434	A1	20010607	DE 1999-19948434	19991008
PT 1218378	T	20030930	PT 2000-969439	20001006
ES 2198355	T3	20040201	ES 2000-969439	20001006
ZA 2002003579	A	20030806	ZA 2002-3579	20020506

PRIORITY APPLN. INFO.: DE 1999-19948434 A 19991008
OTHER SOURCE(S): MARPAT 134:295826
GI

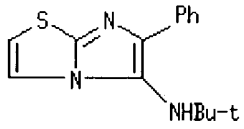


I

AB Substance libraries comprising, e.g., I [R1 = CMe3, cycloalkyl, (un)substituted Ph, etc.; R2 = H, cycloalkyl, alkanoyl, etc.; R3 = (cyclo)alkyl, (un)substituted (hetero)aryl, etc.; R5,R6 = H, halo, alkyl, alkoxy, etc.; Z = N or CR10; Z1 = N or CR9; R9,R10 = groups cited for R5; Z = N ≠ Z1; Z1 = N ≠ Z] were prepd. Thus, pyridine-2-amine was cyclocondensed with cyclohexanecarboxaldehyde and tert-Bu isocyanide to give I (R1 = CMe3, R2 = R5 = R6 = H, R3 = cyclohexyl, Z = Z1 = CH). Data for biol. activity of I were given.

IT 214531-41-6P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of imidazopyridineamines and analogs as **analgesics**)

RN 214531-41-6 HCAPLUS
CN Imidazo[2,1-b]thiazol-5-amine, N-(1,1-dimethylethyl)-6-phenyl- (9CI) (CA INDEX NAME)



L31 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2001:283960 HCAPLUS
DOCUMENT NUMBER: 134:295829
TITLE: Preparation of aminoimidazo[2,1-b]thiazoles, -pyrazoles, and -triazoles as **analgesics**
INVENTOR(S): Gerlach, Matthias; Maul, Corinna
PATENT ASSIGNEE(S): Gruenenthal G.m.b.H., Germany
SOURCE: PCT Int. Appl., 56 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001027118	A2	20010419	WO 2000-EP9097	20000918
WO 2001027118	A3	20010920		
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DE 19948436	A1	20010607	DE 1999-19948436	19991008
BR 2000014817	A	20020618	BR 2000-14817	20000918
EP 1218383	A2	20020703	EP 2000-967693	20000918
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003511456	T2	20030325	JP 2001-530336	20000918
NZ 518390	A	20031031	NZ 2000-518390	20000918
NO 2002001566	A	20020527	NO 2002-1566	20020403
US 2002183320	A1	20021205	US 2002-117335	20020408
US 6657064	B2	20031202		
US 2004023927	A1	20040205	US 2003-633579	20030805

PRIORITY APPLN. INFO.:

DE 1999-19948434	A	19991008
DE 1999-19948436	A	19991008
DE 1999-19948438	A	19991008
WO 2000-EP9097	W	20000918
US 2002-117335	A3	20020408

OTHER SOURCE(S): MARPAT 134:295829

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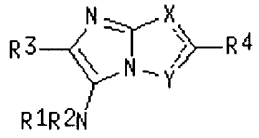


I

AB Title compds. [I; R1 = CMe3, cyanohexyl, (substituted) Ph, cycloalkyl, etc.; R2 = H, (branched) (substituted) alkylcarbonyl, Ph, naphthyl, pyridyl, thiazolyl, furoyl, etc.; R3 = (branched) alkylcycloalkyl, (substituted) Ph, naphthyl, quinolinyl, anthracenyl, phenanthrenyl, etc.; X = CR5, N, S; Y = N, but when X = S, Y = CR6, N; R4, R5, R6 = H, (branched) alkyl, halo, CF3, cyano, NO2, amino, etc.], were prepd. Using a Zymark robotic synthesis system, 3-amino-1,2,4-triazole and HClO4 in CH2Cl2, furfural in CH2Cl2, and tert-butylisonitrile in CH2Cl2 were added successively to a reactor tube at 15° followed by 11 h stirring at 15° to give tert-butyl-(5-furan-2-yl-imidazo[1,2-b][1,2,4]triazol-6-yl)amine. Several I at 10 μM showed 34-77% α2 adrenoceptor affinity.

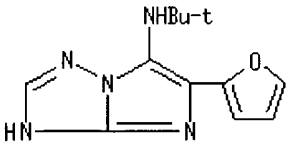
IT **334771-60-7P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of aminoimidazothiazoles, -pyrazoles, and -triazoles as **analgesics**)

RN 334771-60-7 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-(2-furanyl)- (9CI) (CA INDEX NAME)



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* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1           Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2           "Ask CAS" for self-help around the clock
 NEWS  3  JAN 27   Source of Registration (SR) information in REGISTRY updated
                   and searchable
 NEWS  4  JAN 27   A new search aid, the Company Name Thesaurus, available in
                   CA/CAplus
 NEWS  5  FEB 05   German (DE) application and patent publication number format
                   changes
 NEWS  6  MAR 03   MEDLINE and LMEDLINE reloaded
 NEWS  7  MAR 03   MEDLINE file segment of TOXCENTER reloaded
 NEWS  8  MAR 03   FRANCEPAT now available on STN
 NEWS  9  MAR 29   Pharmaceutical Substances (PS) now available on STN
 NEWS 10  MAR 29   WPIFV now available on STN
 NEWS 11  MAR 29   New monthly current-awareness alert (SDI) frequency in RAPRA
 NEWS 12  APR 26   PROMT: New display field available
 NEWS 13  APR 26   IFIPAT/IFIUDB/IFICDB: New super search and display field
                   available
 NEWS 14  APR 26   LITALERT now available on STN
 NEWS 15  APR 27   NLDB: New search and display fields available
 NEWS 16  May 10   PROUSDDR now available on STN
 NEWS 17  May 19   PROUSDDR: One FREE connect hour, per account, in both May
                   and June 2004
 NEWS 18  May 12   EXTEND option available in structure searching
 NEWS 19  May 12   Polymer links for the POLYLINK command completed in REGISTRY

 NEWS EXPRESS  MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS INTER    General Internet Information
 NEWS LOGIN    Welcome Banner and News Items
 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

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  result in loss of user privileges and other penalties.

  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 18:13:10 ON 14 MAY 2004

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

FILE 'REGISTRY' ENTERED AT 18:13:33 ON 14 MAY 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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provided by InfoChem.

STRUCTURE FILE UPDATES: 13 MAY 2004 HIGHEST RN 681515-11-7
DICTIONARY FILE UPDATES: 13 MAY 2004 HIGHEST RN 681515-11-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

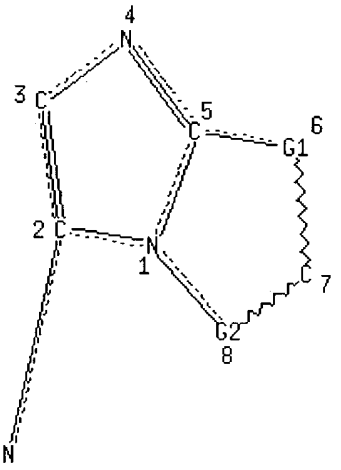
Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR

N 13 C 14

C 10 S 11 N 12
Page 1-A



Page 1-B
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VAR G2=13/14
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NSPEC IS R AT 2
NSPEC IS R AT 3
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NSPEC IS R AT 6
NSPEC IS R AT 7
NSPEC IS R AT 8
NSPEC IS C AT 9
DEFAULT MLEVEL IS ATOM
MLEVEL IS CLASS AT 9
DEFAULT ECLEVEL IS LIMITED

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GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS  14

STEREO ATTRIBUTES: NONE


=> s l1
SAMPLE SEARCH INITIATED 18:17:46 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    494 TO ITERATE

100.0% PROCESSED     494 ITERATIONS                                  26 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          8547 TO    11213
PROJECTED ANSWERS:              215 TO      825

L2            26 SEA SSS SAM L1

=>
L3       STRUCTURE UPLOADED

=> d l3
L3 HAS NO ANSWERS
L3                STR
 Cy 16Ak 17


 N 14 C 15


 C 11 S 12 N 13
Page 1-A
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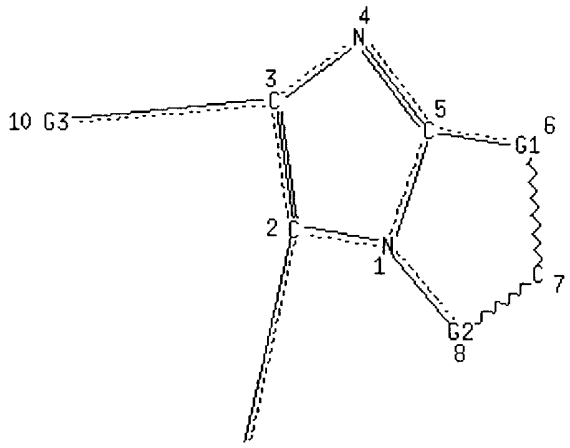


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Page 1-B

 9 N
Page 2-B
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VAR G2=14/15
VAR G3=16/17
NODE ATTRIBUTES:
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NSPEC   IS R      AT   3
NSPEC   IS R      AT   4
NSPEC   IS R      AT   5
NSPEC   IS R      AT   6
NSPEC   IS R      AT   7
NSPEC   IS R      AT   8
NSPEC   IS C      AT   9
NSPEC   IS C      AT  10
DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS  AT   9 16 17
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS  17

STEREO ATTRIBUTES: NONE


=> s l3
SAMPLE SEARCH INITIATED 18:19:46 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    494 TO ITERATE

100.0% PROCESSED     494 ITERATIONS                          20 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         8547 TO    11213
PROJECTED ANSWERS:             132 TO      668

L4            20 SEA SSS SAM L3

=> s l3 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 18:19:51 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -  10474 TO ITERATE

100.0% PROCESSED   10474 ITERATIONS                        397 ANSWERS
SEARCH TIME: 00.00.01

L5           397 SEA SSS FUL L3

=> file hcaplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                             159.62     159.83

FILE 'HCAPLUS' ENTERED AT 18:19:57 ON 14 MAY 2004
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```

FILE COVERS 1907 - 14 May 2004 VOL 140 ISS 21
FILE LAST UPDATED: 13 May 2004 (20040513/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> **s l5**
L6 75 L5

=>
L7 STRUCTURE UPLOADED

=> **s l7**
REG1stRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

SAMPLE SEARCH INITIATED 18:21:18 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 301 TO ITERATE

100.0% PROCESSED 301 ITERATIONS 6 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 4980 TO 7060
PROJECTED ANSWERS: 6 TO 266

L8 6 SEA SSS SAM L7

L9 2 L8

=> **file reg**

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.36	167.33

FILE 'REGISTRY' ENTERED AT 18:21:22 ON 14 MAY 2004
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STRUCTURE FILE UPDATES: 13 MAY 2004 HIGHEST RN 681515-11-7
DICTIONARY FILE UPDATES: 13 MAY 2004 HIGHEST RN 681515-11-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

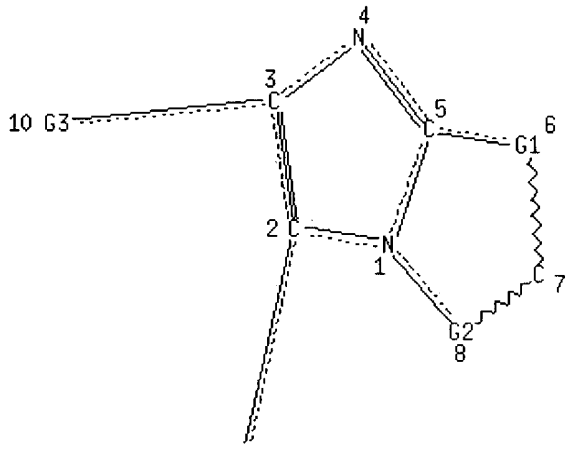
=>
L10 STRUCTURE UPLOADED

=> d l10
L10 HAS NO ANSWERS
L10 STR

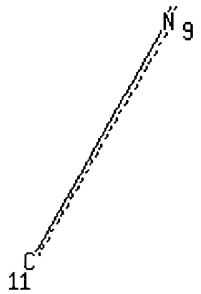
Cy 17Ak 18

N 15 C 16

C 12 S 13 N 14
Page 1-A



Page 1-B



Page 2-B
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NSPEC   IS R      AT   3
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NSPEC   IS R      AT   7
NSPEC   IS R      AT   8
NSPEC   IS C      AT   9
NSPEC   IS C      AT  10
NSPEC   IS C      AT  11
DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS  AT   9 11 17 18
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS  18

STEREO ATTRIBUTES: NONE


=> s l10
SAMPLE SEARCH INITIATED 18:21:37 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    301 TO ITERATE

100.0% PROCESSED     301 ITERATIONS                          6 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         4980 TO     7060
PROJECTED ANSWERS:               6 TO      266

L11           6 SEA SSS SAM L10

=> s l10 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 18:21:42 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   6308 TO ITERATE

100.0% PROCESSED    6308 ITERATIONS                         87 ANSWERS
SEARCH TIME: 00.00.01

L12          87 SEA SSS FUL L10

=> file hcaplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                               155.42     322.75

FILE 'HCAPLUS' ENTERED AT 18:21:47 ON 14 MAY 2004
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FILE COVERS 1907 - 14 May 2004 VOL 140 ISS 21
FILE LAST UPDATED: 13 May 2004 (20040513/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l12
L13 16 L12

=> s l13 and gerlach, m?/au
233 GERLACH, M?/AU
L14 3 L13 AND GERLACH, M?/AU

=> d l14, ibib abs fhitstr, 1-3

L14 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2001:798222 HCAPLUS
DOCUMENT NUMBER: 135:344484
TITLE: Preparation of N-acylimidazopyridineamine chlorides and analogs as μ-opiate receptor ligands
INVENTOR(S): **Gerlach, Matthias**; Maul, Corinna
PATENT ASSIGNEE(S): Gruenenthal G.m.b.H., Germany
SOURCE: PCT Int. Appl., 83 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001081344	A1	20011101	WO 2001-EP3772	20010403
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 10019714	A1	20020110	DE 2000-10019714	20000420
EP 1274709	A1	20030115	EP 2001-931560	20010403
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003531208	T2	20031021	JP 2001-578434	20010403
NO 2002004838	A	20021007	NO 2002-4838	20021007
US 2003119842	A1	20030626	US 2002-273344	20021018
PRIORITY APPLN. INFO.:			DE 2000-10019714 A	20000420
			WO 2001-EP3772 W	20010403

OTHER SOURCE(S): MARPAT 135:344484
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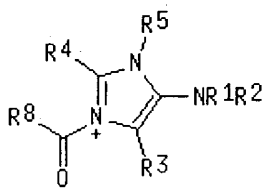
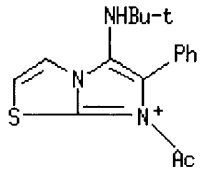


I

AB Title compds. (ICl-)[II; R1 = CMe3, cyclohexyl, CH2CO2Me, (un)substituted Ph, etc.; R2 = H or alkanoyl; R3 = Me, Ph, 2-furyl, 2-pyridinyl, etc.; R4R5 = (un)substituted CH:CHCH:CH, CH:NCH:CH, N:CHCH:CH, etc.; R8 = (cyclo)alkyl] were prepd. Thus, 2-aminopyridine was cyclocondensed with Me3CNC and PhCHO to give, after N-acylation, II (R1 = CMe3, R2 = H, R3 = Ph, R4R5 = CH:CHCH:CH, R8 = Me). Data for biol. activity of II were given.

IT 370858-36-9P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of N-acylimidazopyridineamine chlorides and analogs as μ-opiate receptor ligands)

RN 370858-36-9 HCAPLUS
CN Imidazo[2,1-b]thiazolium, 7-acetyl-5-[(1,1-dimethylethyl)amino]-6-phenyl-, chloride (9CI) (CA INDEX NAME)



Cl^-

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2001:283961 HCAPLUS
DOCUMENT NUMBER: 134:295826
TITLE: Preparation of imidazopyridineamines and analogs as analgesics
INVENTOR(S): **Gerlach, Matthias**; Maul, Corinna
PATENT ASSIGNEE(S): Gruenenthal G.m.b.H., Germany
SOURCE: PCT Int. Appl., 30 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

WO 2001027119 A2 20010419 WO 2000-EP9098 20000918
WO 2001027119 A3 20011011
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
DE 19948434 A1 20010607 DE 1999-19948434 19991008
PT 1218378 T 20030930 PT 2000-969439 20001006
ES 2198355 T3 20040201 ES 2000-969439 20001006
ZA 2002003579 A 20030806 ZA 2002-3579 20020506
PRIORITY APPLN. INFO.: DE 1999-19948434 A 19991008
OTHER SOURCE(S): MARPAT 134:295826
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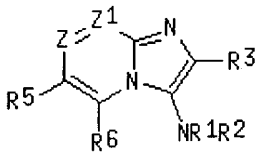
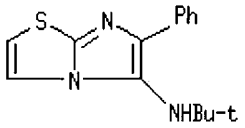


I

AB Substance libraries comprising, e.g., I [R1 = CMe3, cycloalkyl, (un)substituted Ph, etc.; R2 = H, cycloalkyl, alkanoyl, etc.; R3 = (cyclo)alkyl, (un)substituted (hetero)aryl, etc.; R5,R6 = H, halo, alkyl, alkoxy, etc.; Z = N or CR10; Z1 = N or CR9; R9,R10 = groups cited for R5; Z = N ≠ Z1; Z1 = N ≠ Z] were prepd. Thus, pyridine-2-amine was cyclocondensed with cyclohexanecarboxaldehyde and tert-Bu isocyanide to give I (R1 = CMe3, R2 = R5 = R6 = H, R3 = cyclohexyl, Z = Z1 = CH). Data for biol. activity of I were given.

IT **214531-41-6P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of imidazopyridineamines and analogs as analgesics)
RN 214531-41-6 HCAPLUS
CN Imidazo[2,1-b]thiazol-5-amine, N-(1,1-dimethylethyl)-6-phenyl- (9CI) (CA INDEX NAME)



L14 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN
Full Text | Citing References

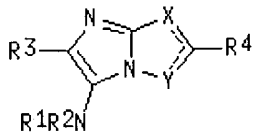
ACCESSION NUMBER: 2001:283960 HCAPLUS
DOCUMENT NUMBER: 134:295829
TITLE: Preparation of aminoimidazo[2,1-b]thiazoles, -pyrazoles, and -triazoles as analgesics
INVENTOR(S): **Gerlach, Matthias**; Maul, Corinna
PATENT ASSIGNEE(S): Gruenenthal G.m.b.H., Germany
SOURCE: PCT Int. Appl., 56 pp.

CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001027118	A2	20010419	WO 2000-EP9097	20000918
WO 2001027118	A3	20010920		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19948434	A1	20010607	DE 1999-19948434	19991008
DE 19948436	A1	20010607	DE 1999-19948436	19991008
BR 2000014817	A	20020618	BR 2000-14817	20000918
EP 1218383	A2	20020703	EP 2000-967693	20000918
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003511456	T2	20030325	JP 2001-530336	20000918
NZ 518390	A	20031031	NZ 2000-518390	20000918
NO 2002001566	A	20020527	NO 2002-1566	20020403
US 2002183320	A1	20021205	US 2002-117335	20020408
US 6657064	B2	20031202		
US 2004023927	A1	20040205	US 2003-633579	20030805

PRIORITY APPLN. INFO.:
DE 1999-19948434 A 19991008
DE 1999-19948436 A 19991008
DE 1999-19948438 A 19991008
WO 2000-EP9097 W 20000918
US 2002-117335 A3 20020408

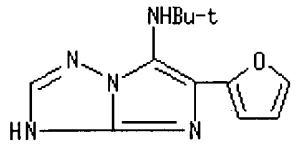
OTHER SOURCE(S): MARPAT 134:295829
GI



I

AB Title compds. [I; R1 = CMe3, cyanohexyl, (substituted) Ph, cycloalkyl, etc.; R2 = H, (branched) (substituted) alkylcarbonyl, Ph, naphthyl, pyridyl, thiazolyl, furoyl, etc.; R3 = (branched) alkylcycloalkyl, (substituted) Ph, naphthyl, quinolinyl, anthracenyl, phenanthrenyl, etc.; X = CR5, N, S; Y = N, but when X = S, Y = CR6, N; R4, R5, R6 = H, (branched) alkyl, halo, CF3, cyano, NO2, amino, etc.], were prepd. Using a Zymark robotic synthesis system, 3-amino-1,2,4-triazole and HClO4 in CH2Cl2, furfural in CH2Cl2, and tert-butylisonitrile in CH2Cl2 were added successively to a reactor tube at 15° followed by 11 h stirring at 15° to give tert-butyl-(5-furan-2-yl-imidazo[1,2-b][1,2,4]triazol-6-yl)amine. Several I at 10 μM showed 34-77% α2 adrenoceptor affinity.

IT 334771-60-7P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of aminoimidazothiazoles, -pyrazoles, and -triazoles as analgesics)
RN 334771-60-7 HCAPLUS
CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-(2-furanyl)- (9CI) (CA INDEX NAME)



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S L7

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L15 ANSWER 1 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2003:507684 HCAPLUS
DOCUMENT NUMBER: 139:85530
TITLE: Preparation of C1 to c4 side-chain modified nodulisporic acid analogs as anthelmintic agents
INVENTOR(S): Shih, Thomas; Colletti, Steven L.; Fisher, Michael H.; Meinke, Peter T.; Kuo, Howard C. H.; Chakravarty, Prasun K.; Wyvratt, Matthew J.; Tyagarajan, Sriram; Berger, Richard
PATENT ASSIGNEE(S): Merck & Co., Inc., USA
SOURCE: U.S., 57 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6586452	B1	20030701	US 2001-901266	20010709

PRIORITY APPLN. INFO.: US 2000-218398P P 20000714
OTHER SOURCE(S): MARPAT 139:85530
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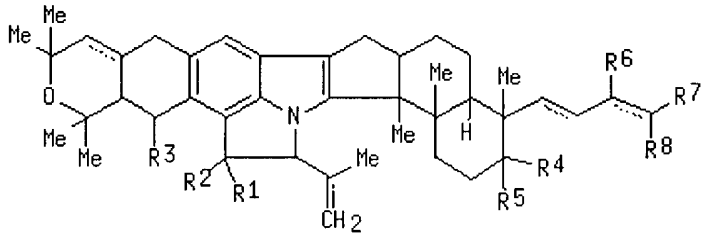

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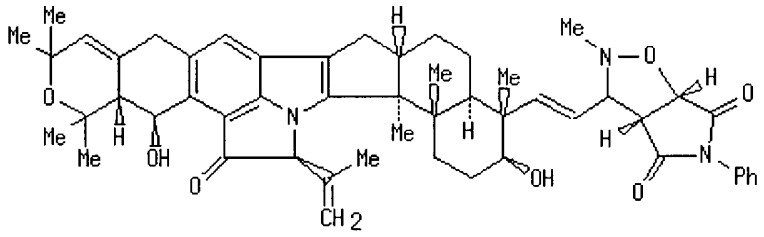


II

AB Nodulisporic acid derivs., such as I [R1 = H, alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heterocyclyl; R2-R4 = (substituted) OH; R1R2 = O; R5 = H, (substituted) OH; R4R5 = O; R6-R8 = H, alkyl, alkenyl, aryl, cycloalkyl, halo, CN acyl, amino, etc.] were prepd. The compds. were acaricidal, antiparasitic, insecticidal and anthelmintic agents. Thus, nodulisporic acid deriv. II was prepd. via a multistep synthetic sequence starting from nodulisporic acid A, N-methylhydroxylamine hydrochloride and N-phenyl-maleimide.

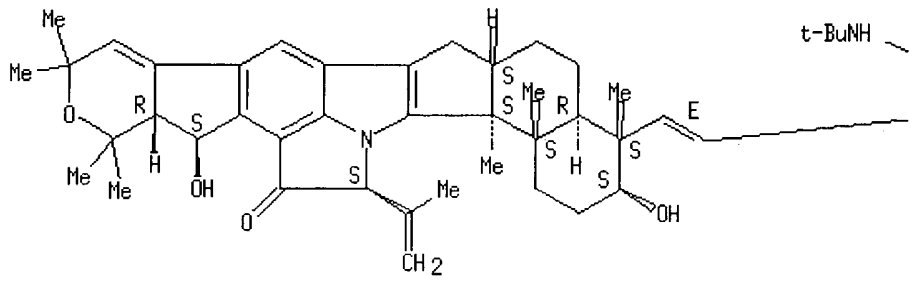
IT 552836-27-8P
RL: AGR (Agricultural use); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of C1 to c4 side-chain modified nodulisporic acid analogs as anthelmintic agents)

RN 552836-27-8 HCAPLUS
CN 1H-Benz[6,7]indeno[1,2-b]pyrano[3',4':4,5]cyclopenta[1,2-f]pyrrolo[3,2,1-

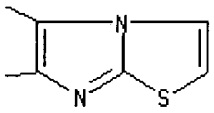
hi]indol-14(15H)-one, 4-[(1E)-2-[5-[(1,1-dimethylethyl)amino]imidazo[1,2-b]thiazol-6-yl]ethenyl]-2,3,4,4a,5,6,6a,7,10,12,12a,13,16b,16c-tetradecahydro-3,13-dihydroxy-4,10,10,12,12,16b,16c-heptamethyl-15-(1-methylethenyl)-, (3S,4S,4aR,6aS,12aR,13S,15S,16bS,16cS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



PAGE 1-B



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 2 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

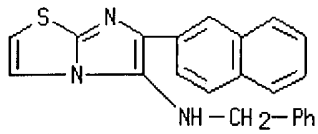
Full Text | Citing References

ACCESSION NUMBER: 2003:363790 HCAPLUS
DOCUMENT NUMBER: 139:230677
TITLE: Microwave-assisted multi-component synthesis of fused 3-aminoimidazoles
AUTHOR(S): Ireland, Sarah M.; Tye, Heather; Whittaker, Mark
CORPORATE SOURCE: Evotec OAI, Abingdon, Oxfordshire, OX14 4SD, UK
SOURCE: Tetrahedron Letters (2003), 44(23), 4369-4371
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:230677

AB A variety of fused 3-aminoimidazoles have been synthesized by a microwave assisted Ugi three-component coupling (3cc) reaction catalyzed by scandium triflate in methanol as solvent. Yields of 33-93% have been achieved after just 10 min of microwave irradn. using a simple one-stage procedure. The methodol. described is suitable for the rapid and efficient synthesis of a range of fused heterocycles of pharmacol. interest.

IT **593270-92-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of fused 3-aminoimidazoles via microwave assisted Ugi three-component coupling as the key step)

RN 593270-92-9 HCAPLUS
CN Imidazo[2,1-b]thiazol-5-amine, 6-(2-naphthalenyl)-N-(phenylmethyl)- (9CI) (CA INDEX NAME)

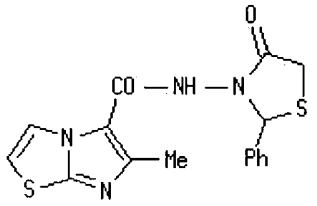


REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 3 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2003:90593 HCAPLUS
DOCUMENT NUMBER: 138:401653
TITLE: Fused heterocycles: Synthesis of some new imidazothiazoles
AUTHOR(S): Cesur, Nesrin; Cesur, Zafer; Guner, Handan; Kasimogullari, B. Ozden
CORPORATE SOURCE: Department of Pharmaceutical Chemistry, Faculty of Pharmacy, University of Istanbul, Instanbul, 34452, Turk.
SOURCE: Heterocyclic Communications (2002), 8(5), 433-438
CODEN: HCOMEX; ISSN: 0793-0283
PUBLISHER: Freund Publishing House Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 138:401653
GI



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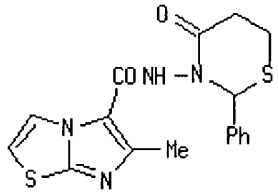
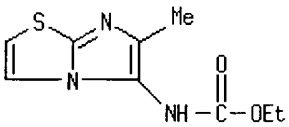


II

AB Reaction of aldehyde-hydrazones or semicarbazones bearing an imidazo[2,1-b][1,3]thiazole ring system with mercaptoalkanoic acids were investigated and found to give thiazolidine and thiazine derivs., e.g. I and II. Antimycobacterial activities of compds. thus obtained were evaluated against Mycobacterium tuberculosis H37Rv using rifampine as std. (no data).

IT **531501-57-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of some new imidazothiazoles via aldehyde hydrazones or semicarbazones)

RN 531501-57-2 HCAPLUS
CN Carbamic acid, (6-methylimidazo[2,1-b]thiazol-5-yl)-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 4 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

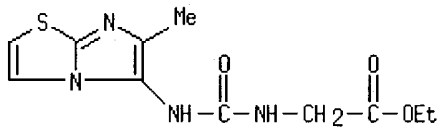
Full Text | Citing References

ACCESSION NUMBER: 2000:211394 HCAPLUS
DOCUMENT NUMBER: 132:334420
TITLE: Synthesis of new functionalized imidazo[2,1-b]thiazoles and thiazolo[3,2-a]pyrimidines
AUTHOR(S): Peterlin-Masic, Lucija; Malesic, Mateja; Breznik, Matej; Krbavcic, Ales
CORPORATE SOURCE: Faculty of Pharmacy, University of Ljubljana, Ljubljana, 1000, Slovenia
SOURCE: Journal of Heterocyclic Chemistry (2000), 37(1), 95-101
CODEN: JHTCAD; ISSN: 0022-152X
PUBLISHER: HeteroCorporation
DOCUMENT TYPE: Journal
LANGUAGE: English

AB 5-Oxo-5H-[1,3]thiazolo[3,2-a]pyrimidine-6-carboxylic acid and 6-methylimidazo[2,1-b]thiazole-5-carboxylic acid were reacted with amines via reaction with oxalyl chloride and use of N,N-dimethylformamide as a catalyst to give primary and secondary amide derivs. N,N'-disubstituted ureas and perhydroimidazo[1,5-c]thiazole derivs. of imidazo[2,1-b]thiazole were also prepd. By NMR anal. of one of the compds. prepd., existence of two stereoisomers resulting from both optical and conformational isomerism was obsd.

IT **267897-75-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of imidazo[2,1-b]thiazoles and thiazolo[3,2-a]pyrimidines)

RN 267897-75-6 HCAPLUS
CN Glycine, N-[[(6-methylimidazo[2,1-b]thiazol-5-yl)amino]carbonyl]-, ethyl ester (9CI) (CA INDEX NAME)

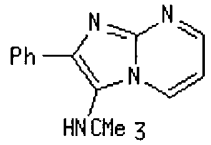


REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 5 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1998:624858 HCAPLUS
DOCUMENT NUMBER: 129:302566
TITLE: A new heterocyclic multicomponent reaction for the combinatorial synthesis of fused 3-aminoimidazoles
AUTHOR(S): Bienayme, Hugues; Bouzid, Kamel
CORPORATE SOURCE: Rhone-Poulenc Technologies, St-Fons, F-69192, Fr.
SOURCE: Angewandte Chemie, International Edition (1998), 37(16), 2234-2237
CODEN: ACIEF5; ISSN: 1433-7851
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 129:302566
GI



I

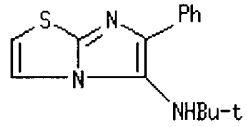
AB Reaction of heteroarom. amidines, aldehydes, and isonitriles in the presence of a catalytic amt. of protic acids gave fused 3-aminoimidazoles. E.g., HClO4-catalyzed reaction of 2-aminopyrimidine, PhCHO, and Me3CNC gave 82% imidazopyrimidine I.

IT **214531-41-6P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of fused aminoimidazoles by multicomponent reaction of aminoamidines, aldehydes, and isonitriles)

RN 214531-41-6 HCAPLUS

CN Imidazo[2,1-b]thiazol-5-amine, N-(1,1-dimethylethyl)-6-phenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 6 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1997:169046 HCAPLUS
DOCUMENT NUMBER: 126:238333
TITLE: Transformations of methyl L-(-)-Thiazolidine-4-carboxylate, 2-amino-2-thiazoline and 2-aminothiazole into thiazoloazines and azolothiazoles
AUTHOR(S): Malesic, Mateja; Krbavcic, Ales; Stanovnik, Branko
CORPORATE SOURCE: Faculty of Pharmacy, University of Ljubljana, Lujbljana, 1000, Slovenia
SOURCE: Journal of Heterocyclic Chemistry (1997), 34(1), 49-55
CODEN: JHTCAD; ISSN: 0022-152X
PUBLISHER: HeteroCorporation
DOCUMENT TYPE: Journal
LANGUAGE: English

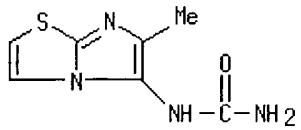
AB In the search for potential immunomodulators Me L-(-)-thiazolidine-4-carboxylate (I), 2-amino-2-thiazoline (II), and 2-aminothiazole (III) were transformed into derivs. of various bicyclic systems. Thus, from I, derivs. of perhydrothiazolo[3,4-a]pyrazine, perhydrothiazolo[4,3-c][1,4]oxazine, and perhydroimidazo[1,5-c]thiazole were prepd. From II, derivs. of 2,3-dihydrothiazolo[2,3-b]pyrimidine were prepd. From III, derivs. of imidazo[2,1-b]thiazoline were prepd. 6-(P-Sulfamoylphenyl)-7-oxoperhydroimidazo[1,5-c]thiazole-5-thione was found to exhibit immunorestoration activity.

IT **188561-50-4P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(transformations of Me thiazolidinecarboxylate, aminothiazoline, and aminothiazole into thiazoloazines and azolothiazoles)

RN 188561-50-4 HCAPLUS

CN Urea, (6-methylimidazo[2,1-b]thiazol-5-yl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 7 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1995:350430 HCAPLUS
DOCUMENT NUMBER: 122:147044
TITLE: A silver halide color photographic material.
INVENTOR(S): Ikesu, Satoru; Kaneko, Yutaka
PATENT ASSIGNEE(S): Konica Corporation, Japan
SOURCE: Eur. Pat. Appl., 37 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 608133	A1	19940727	EP 1994-300429	19940120
EP 608133	B1	19990707		
R: DE, FR, GB, NL				
JP 06222526	A2	19940812	JP 1993-8572	19930121
JP 06242569	A2	19940902	JP 1993-25720	19930215
JP 06242570	A2	19940902	JP 1993-25721	19930215

PRIORITY APPLN. INFO.: JP 1993-8572 19930121
JP 1993-25720 19930215
JP 1993-25721 19930215

OTHER SOURCE(S): MARPAT 122:147044
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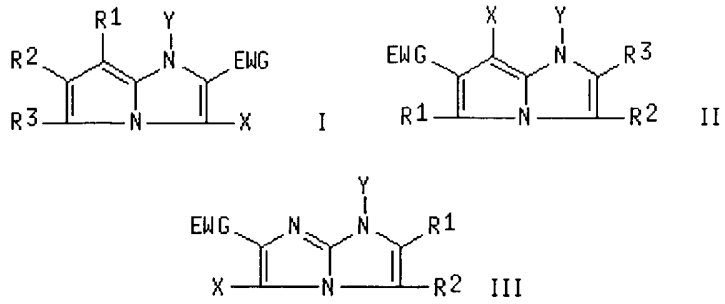


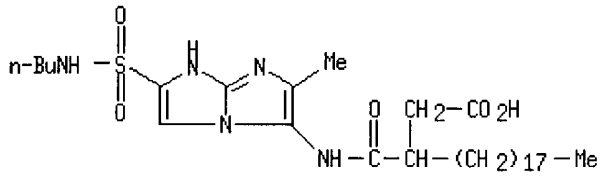
AB A Ag halide color photog. material comprises ≥1 of the hydrophilic colloid layers contg. a cyan dye-forming coupler represented by I, II, or III [R1-R3, Y = H, substituent; EWG = electron withdrawing group having Hammet's substituent const. ≥0.3; X = H, group capable of splitting off upon reaction with an oxidized product of a color developing agent]. The formed dye images have improved hue stability against heat, moisture and light.

IT **160877-96-3**

RL: DEV (Device component use); TEM (Technical or engineered material use); USES (Uses)
(photog. cyan coupler for improved hue stability)

RN 160877-96-3 HCAPLUS

CN Heneicosanoic acid, 3-[[[6-[(butylamino)sulfonyl]-2-methyl-1H-imidazo[1,2-a]imidazol-3-yl]amino]carbonyl]- (9CI) (CA INDEX NAME)



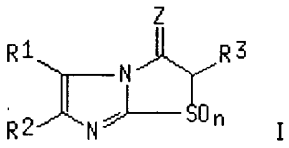
L15 ANSWER 8 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1993:222791 HCAPLUS
DOCUMENT NUMBER: 118:222791
TITLE: Photographic cyan coupler with heat and moisture resistance
INVENTOR(S): Kita, Hiroshi; Kaneko, Yutaka; Ikesu, Satoru
PATENT ASSIGNEE(S): Konica Co., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04260035	A2	19920916	JP 1991-42345	19910215
JP 2849954	B2	19990127		

PRIORITY APPLN. INFO.: JP 1991-42345 19910215
OTHER SOURCE(S): MARPAT 118:222791
GI



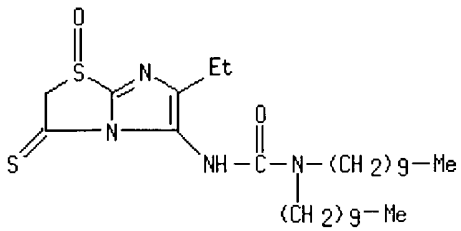
I

AB Photog. coupler I (R1-2 = H, substituent, R1 and R2 may form a ring; R3 = H, releasing group by the reaction with the oxidized color developing agent; Z = O, S; n = 1-2). The coupler gives cyan images with heat-, light-, and moisture-resistance.

IT **147034-73-9**
RL: TEM (Technical or engineered material use); USES (Uses)
(photog. cyan coupler)

RN 147034-73-9 HCAPLUS

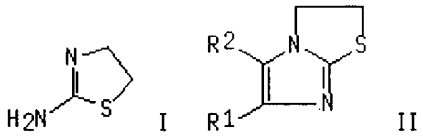
CN Urea, N,N-didecyl-N'-(6-ethyl-2,3-dihydro-1-oxido-3-thioxoimidazo[2,1-b]thiazol-5-yl)- (9CI) (CA INDEX NAME)



L15 ANSWER 9 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

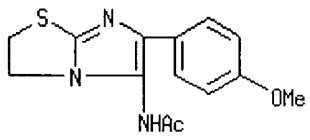
Full Text | Citing References

ACCESSION NUMBER: 1987:102158 HCAPLUS
DOCUMENT NUMBER: 106:102158
TITLE: Novel syntheses of fused imidazoles. III. Simplified construction of the imidazo[2,1-b]thiazoline system
AUTHOR(S): Lantos, Ivan; McGuire, Michael
CORPORATE SOURCE: Chem. Res. Dev., Smith Kline and French Lab., Philadelphia, PA, 19101, USA
SOURCE: Heterocycles (1986), 24(4), 991-6
CODEN: HTCYAM; ISSN: 0385-5414
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 106:102158
GI



AB Aminothiazoline I reacted with 4-RC6H4CHO (R = OMe, F, H, Me) in the presence of NaCN at room temp. to give imidazothiazolines II (R1 = 4-RC6H4; R2 = R1CH:N) in 20-80% yields. Acid hydrolysis of the latter gave II (R2 = NH2).

IT **106726-46-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 106726-46-9 HCAPLUS
CN Acetamide, N-[2,3-dihydro-6-(4-methoxyphenyl)imidazo[2,1-b]thiazol-5-yl]- (9CI) (CA INDEX NAME)

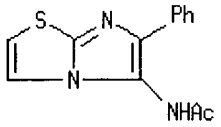


L15 ANSWER 10 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

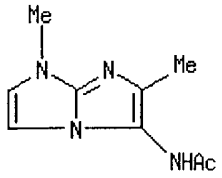
Full Text | Citing References

ACCESSION NUMBER: 1974:505382 HCAPLUS
DOCUMENT NUMBER: 81:105382
TITLE: Cyclization of ω-chloro-ω-acylamido acetophenones
AUTHOR(S): Drach, B. S.; Dolgushina, I. Yu.; Sinitsa, A. D.

CORPORATE SOURCE: Inst. Org. Khim., Kiev, USSR
SOURCE: Khimiya Geterotsiklicheskikh Soedinenii (1974), (7), 928-31
CODEN: KGSSAQ; ISSN: 0132-6244
DOCUMENT TYPE: Journal
LANGUAGE: Russian
GI For diagram(s), see printed CA Issue.
AB Acylamidothiazoles (I; R = Me, MeO, Ph, PhCH2O; R1 = H, Ph, MeS, NH2, Me) were obtained in 60-94% yields by cyclization of RCONHCHClCOPh (II) with R1CSNH2 1 hr in boiling THF. Analogously obtained were 60-86% benzothiazines (III; R = Me, Ph, MeO) from o-aminobenzenethiol, 55-62% imidazothiazoles (IV; R = Me, MeO) from 2-aminothiazole, and 60-8% imidazopyridines (V; R = Me, MeO) from 2-aminopyridine.
IT **54167-97-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 54167-97-4 HCAPLUS
CN Acetamide, N-(6-phenylimidazo[2,1-b]thiazol-5-yl)- (9CI) (CA INDEX NAME)



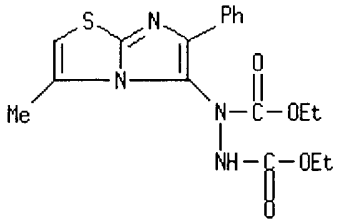
L15 ANSWER 11 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN
Full Text | Citing References
ACCESSION NUMBER: 1973:159516 HCAPLUS
DOCUMENT NUMBER: 78:159516
TITLE: 1H-Imidazo[1,2-a]imidazoles. II. Chemistry of 1,6-dimethyl-1H-imidazo[1,2-a]imidazole
AUTHOR(S): Miller, Laird F.; Bambury, Ronald E.
CORPORATE SOURCE: Merrell-Natl. Lab. Div., Richardson-Merrell, Inc., Cincinnati, OH, USA
SOURCE: Journal of Organic Chemistry (1973), 38(10), 1955-7
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 78:159516
GI For diagram(s), see printed CA Issue.
AB Electrophilic substitutions of 1,6-dimethyl-1H-imidazo [1,2-a]imidazole (I) occurred initially at the 5-position. Nitration of I also gave a dinitrated product whose structure was not conclusively established. A series of Hueckel MO calcns. were made in order to det. the site of substitution.
IT **38739-98-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 38739-98-9 HCAPLUS
CN Acetamide, N-(1,6-dimethyl-1H-imidazo[1,2-a]imidazol-5-yl)- (9CI) (CA INDEX NAME)



L15 ANSWER 12 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1968:95754 HCAPLUS
DOCUMENT NUMBER: 68:95754
TITLE: Substitution and addition reactions of 2-phenylimidazo[2,1-b]benzothiazole
AUTHOR(S): Pentimalli, Luciano; Guerra, Anna Maria
CORPORATE SOURCE: Univ. Bologna, Bologna, Italy
SOURCE: Gazzetta Chimica Italiana (1967), 97(8), 1286-93
CODEN: GCITA9; ISSN: 0016-5603
DOCUMENT TYPE: Journal
LANGUAGE: Italian
GI For diagram(s), see printed CA Issue.
AB Compds. of the general formulas I and II are prepd. A mixt. of 3.3 g. 2-amino-4-methylthiazole, 6 g. BrCH2COPh, and 30 ml. EtOH is refluxed 3 hrs. to give 68% 3-methyl-6-phenylimidazo[2,1-b]thiazole (III), m. 113° (ligroine). Similarly prepd. are (m.p. given): 2-phenylimidazo[2,1-b]-benzothiazole (IV), 97-9° (HCl salt m. 224-6°); I (Y = H, X = NO2), 257-8° (pyridine); II (Y = H, X = NO2), 284-6°. A mixt. of 1 g. IV, 0.8 g. EtO2CN:NCO2Et, and 15 ml. C6H6 is refluxed 3 hrs. to give 90% II [X = H, Y = N(CO2Et)NHCO2Et], m. 172-3° (C6H6-ligroine). Similarly prepd. is I [X = H, Y = N(CO2Et)NHCO2Et], m. 143° (C6H6-ligroine). A mixt. of 1 g. III, 0.45 g. maleic anhydride, and 45 ml. C6H6 is refluxed to give 91% I [X = H, Y = CH(CO2H)CH2CO2H], m. 179-80° (EtOH). Similarly prepd. is II [X = H, Y = CH(CO2H)CH2CO2H], m. 173-4° (xylene). A mixt. of 1 g. IV, diazonium salt (prepd. from 0.6 g. p-O2NC6H4NH2), and 20 ml. pyridine is kept overnight to give II (X = H, Y = p-O2NC6H4N:N), m. 240-1° (HOAc). Similarly prepd. is I (X = H, Y = p-O2NC6H4N:N), m. 171-2° (ligroine). A soln. of 1 g. IV in 10 ml. HOAc is treated with an aq. soln. of 0.5 g. NaNO2, the mixt. agitated 30 min., and neutralized with 10% NaOH to give 52% II (X = H, Y = NO), m. 179-80° (ligroin). A soln. of 2 g. IV in 20 ml. concd. H2SO4 is cooled, treated with 0.8 ml. HNO3 (d. 1.40), and agitated 90 min. to give II (X = Y = NO2), m. 327-9°, and II (X = NO2, Y = H), m. 282-5° (pyridine). Similarly prepd. is I (X = Y = NO2), m. 289-90° (pyridine).
IT **17833-09-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
RN 17833-09-9 HCAPLUS
CN Bicarbamic acid, (3-methyl-6-phenylimidazo[2,1-b]thiazol-5-yl)-, diethyl ester (8CI) (CA INDEX NAME)



L15 ANSWER 13 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1963:14863 HCAPLUS
DOCUMENT NUMBER: 58:14863
ORIGINAL REFERENCE NO.: 58:2443e-h,2444a-e
TITLE: Bicyclic heterocyclic compounds with a common nitrogen atom. IV. Aminoimidazo[2,1-b]thiazoles
AUTHOR(S): Pyl, Theodor; Wuensch, Karl Heinz; Buelling, Lothar; Beyer, Hans
CORPORATE SOURCE: Univ. Greifswald, Germany
SOURCE: Ann. (1962), 657, 113-20
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

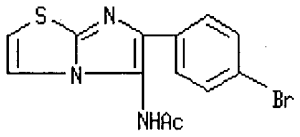
AB 5-Nitro- (I) and 5-nitrosoimidazo[2,1-b]thiazoles (II) were reduced with Zn in AcOH to give the corresponding 5-NH2 derivs. (III), which were relatively stable and behaved chem. as aromatic amines. I were dissolved or suspended in AcOH, treated portionwise with Zn dust with gentle heating, filtered, and the filtrate treated with Et2O-HCl or a few drops concd. H2SO4 [in the latter case the initially formed ppt. (ZnSO4) was discarded; the product crystd. on standing] gave III HCl or H2SO4 salts. Treatment of III salts in H2O with satd. aq. NaOAc or aq. picric acid (IV) gave free III and III picrates, resp. The following III were prepd. in this manner [R, R', R''', m.p. (decompn.), recrystn. solvent, % yield given] (R'' = H in all cases): H, H, Br (V), 183° dil. EtOH, 50; Me, H, Br (VI), 217°, MeOH, 20; H, Me, Br (VII), 200°, MeOH, 50; Me, Me, Br (VIII), 220° MeOH, 20; H, H, Cl (IX), 206°, dil. EtOH, 50; H, H, Me (as picrate), 250° (unsharp), aq. IV, 30; H, H, NH2 (as tri-HCl salt), above 300°, dil. HCl, 70; Me, H, NH2 (as dipicrate), 223°, --, 75; H, Me, NH2 (as dipicrate), 196°, alc.-IV, 65. II dissolved or suspended in AcOH cooled until the greater part of the AcOH solidified, treated portionwise with Zn dust with stirring, when decolorized the soln. filtered, the filtrate treated with a few drops concd. H2SO4 [the initial ppt. (ZnSO4) was discarded], and kept several hrs. gave III sulfate, converted to the free base or picrate as above. Thus were prepd. the following III (same data as above given) (R'' = H in all cases): H, H, Br, 183°, --, --; H, H, H (as picrate), 234°, aq. IV, 40; H, Me, H (as picrate), 213°, --, 33. The bases V-IX were stable; the other bases were unstable and were isolated only as picrates. 5-Nitro-6-(p-bromophenyl)imidazo[2,1-b]thiazole (1.6 g.) in 10 cc. AcOH and 5 cc. Ac2O treated with Zn dust and dild. with H2O gave 1.3 g. III (R'' = Ac, R = R' = H, R''' = Br), m. 211° (decompn.) (dil. EtOH). V (1 g.), 0.9 g. 4-EtO2CNHC6H4SO2Cl, and 0.3 g. pyridine in 100 cc. MeOH heated 2 hrs. and cooled gave 1.1 g. III (R = R' = H, R'' = 4-EtO2CNHC6H4SO2, RH''' = Br) (X) hydrate, m. 195° (H2O); X.HO2 dried in vacuo at 110° gave anhyd. X, m. 214-15°. X (1 g.) and 2 cc. 2N EtOH-NaOH in 50 cc. EtOH heated 6 hrs. at 60°, concd., poured into 1 l. H2O, and kept several hrs. gave 0.6 g. III (R = R' = H, R'' = 4-H2NC6H4SO2, R''' = Br), m. 210-11°. V (1.5 g.) in 75 cc. Me2CO treated with 2 g. PhNCO, kept 1 hr., and concd. gave 1.7 g. III (R = R' = H, R'' = PhNHCO, R''' = Br), m. 238° (decompn.) (EtOH). V (1.5 g.) and 0.7 g. PhNCS treated with 1 drop pyridine, heated (exothermic reaction), the melt taken up in EtOH, and the soln. treated with H2O gave 1.3 g. III (R = R' = H, R'' = PhNHCS, R''' = Br), m. 202° (decompn.) (dil. EtOH). V (1.5 g.) and 5 cc. BzH heated 5 min., the product dissolved in EtOH, and the soln. treated with H2O gave 1.2 g. benzylidene deriv. of V, m. 195° (decompn.) (EtOH). V (1.5 g.) and 3 cc. 2-HOC6H4CHO treated similarly gave 1.1 g. salicylidene deriv. of V, m. 215° (decompn.) (EtOH with C). V (2.9

g.) in 10 cc. concd. HCl and 100 cc. H2O treated with 0.8 g. NaNO2 at 0-5° and the ppt. filtered off rapidly gave moist III (R = R' = R'' = ON, R''' = Br) (XI). Freshly prepd. moist XI suspended in 20 cc. AcOH treated with Zn dust, the resulting light yellow soln. heated 5 min. with 1 cc. BzH, dild. with EtOH, treated with H2O, and kept overnight gave 0.1 g. III (R = R' = R'' = PhCH:N, R''' = Br), m. 210-11° (decompn.) (dil. EtOH). V (1.5 g.) in 15 cc. 50% HBr treated with 0.4 g. NaNO2 at 0-5° and the resulting diazonium soln. coupled with 2-naphthol gave XII. 2,4-Diaminothiazole and 4 g. BzCH2Br (XIII) in 250 cc. EtOH kept 1 hr. deposited 2.5 g. XIV (R = NH2), m. 244° (decompn.) (H2O with C). XIV (R = NH2) (1.5 g.) heated 2 hrs. with concd. HBr and cooled deposited 0.7 g. XIV (R = OH), m. 212° (decompn.) (EtOH). XIV (R = NH2) (3.1 g.) dissolved in 200 cc. boiling H2O, the soln. treated with satd. aq. NaOAc, the resinous product dissolved in EtOH, and the soln. treated with 1 cc. concd. HNO3 gave 2.5 g. 3-hydroxy-6-phenylimidazo [2,1-b]thiazole, m. 183° (decompn.). 2-Amino-4-methyl-5-carbethoxythiazole (3.7 g.) and 4 g. XIII in 50 cc. EtOH heated 30 hrs., cooled, the ppt. filtered off, suspended in H2O, and the suspension heated with NaOAc and cooled gave 4.7 g. XV (R = OEt), m. 144-5° (EtOH). XV (R = OEt) (1.4 g.) and 1 cc. 100% N2H4.H2O in 10 cc. EtOH heated 10 hrs. at 70° and cooled gave 0.9 g. XV (R = NHNH2) (XVI), m. 235° (EtOH). XVI (1.4 g.) in 8 cc. AcOH treated with 0.4 g. NaNO2 and dild. with 100 cc. H2O gave 1 g. XV (R = N3), decompd. when heated. XV (R = N3) (1.4 g.) in 15 cc. AcOH and 15 cc. Ac2O heated until N evolution ceased, poured into 400 cc. H2O, and treated dropwise with 2N NaOH until a flocculent ppt. sepd. gave 0.7 g. 2-acetamido-3-methyl-6-phenylimidazo [2, 1-b] thiazole, m. 225° (decompn.) (EtOH with C).

IT **92905-61-8**, Imidazo[2,1-b]thiazole, 5-acetamido-6-(p-bromophenyl)-
(prepn. of)

RN 92905-61-8 HCAPLUS

CN Imidazo[2,1-b]thiazole, 5-acetamido-6-(p-bromophenyl)- (7CI) (CA INDEX NAME)

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L2           26 S L1
L3              STRUCTURE UPLOADED
L4           20 S L3
L5          397 S L3 FULL

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L6           75 S L5
L7              STRUCTURE UPLOADED
                S L7

     FILE 'REGISTRY' ENTERED AT 18:21:18 ON 14 MAY 2004
L8            6 S L7

     FILE 'HCAPLUS' ENTERED AT 18:21:19 ON 14 MAY 2004
L9            2 S L8

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L10             STRUCTURE UPLOADED
L11           6 S L10
L12          87 S L10 FULL

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L13          16 S L12
L14           3 S L13 AND GERLACH, M?/AU
L15          13 S L13 NOT L14
L16           0 S L15 AND MAUL,C?/AU

     FILE 'CAOLD' ENTERED AT 18:23:05 ON 14 MAY 2004

=> s l12
L17           2 L12

=> d l17, all, 1-1

L17  ANSWER 1 OF 2  CAOLD  COPYRIGHT 2004 ACS on STN
AN   CA58:2443e  CAOLD
TI   bicyclic heterocyclic compds with a common N atom - (IV)
     aminoimidazo[2,1-b]thiazoles
AU   Pyl, Theodor; Wuensch, K. H.; Buelling, L.; Beyer, H.
IT  74416-91-4  88855-97-4  88855-99-6  91183-08-3  91394-83-1  91394-84-2
     91635-13-1  92286-32-3  92545-85-2  93327-30-1  93819-53-5  93869-37-5
     94463-22-6  94574-43-3  94622-88-5  94802-80-9  94802-82-1  94994-64-6
     95315-23-4  95315-26-7  96984-80-4  96986-17-3  97026-49-8 111164-78-4
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=> d l17, all, 1-2

L17 ANSWER 1 OF 2 CAOLD COPYRIGHT 2004 ACS on STN
AN CA58:2443e CAOLD
TI bicyclic heterocyclic compds with a common N atom - (IV) aminoimidazo[2,1-b]thiazoles
AU Pyl, Theodor; Wuensch, K. H.; Buelling, L.; Beyer, H.
IT 74416-91-4 88855-97-4 88855-99-6 91183-08-3 91394-83-1 91394-84-2
91635-13-1 92286-32-3 92545-85-2 93327-30-1 93819-53-5 93869-37-5
94463-22-6 94574-43-3 94622-88-5 94802-80-9 94802-82-1 94994-64-6
95315-23-4 **95315-26-7** 96984-80-4 96986-17-3 97026-49-8 111164-78-4

L17 ANSWER 2 OF 2 CAOLD COPYRIGHT 2004 ACS on STN
AN CA56:2442g CAOLD
TI phenoxazines - (V) syntheses of 7-amino-2-phenoxazones
AU Musso, Hans; Wager, P.
IT 493-42-5 1916-58-1 2835-97-4 3950-31-0 26103-30-0 26103-31-1
53669-94-6 53669-95-7 53669-97-9 67862-51-5 92060-74-7 92102-80-2
92149-10-5 92149-30-9 92149-31-0 92437-82-6 92873-56-8 **92905-61-8**
93014-15-4 93431-78-8 93986-16-4 94538-61-1 94709-90-7 94906-40-8
95019-65-1 98016-21-8 98396-82-8

=> fil reg; d acc 95315-23-4; fil CAOLD

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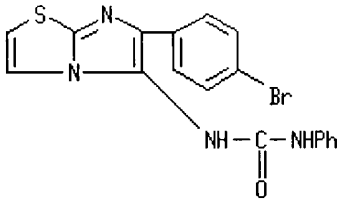
ANSWER 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 95315-23-4 REGISTRY
CN Urea, 1-[6-(p-bromophenyl)imidazo[2,1-b]thiazol-5-yl]-3-phenyl- (7CI) (CA INDEX NAME)
FS 3D CONCORD
MF C18 H13 Br N4 O S
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

FILE 'CAOLD' ENTERED AT 18:23:35 ON 14 MAY 2004

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=> fil reg; d acc 95315-26-7; fil CAOLD

FILE 'REGISTRY' ENTERED AT 18:23:45 ON 14 MAY 2004


ANSWER 1  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   95315-26-7  REGISTRY
CN   Urea, 1-[6-(p-bromophenyl)imidazo[2,1-b]thiazol-5-yl]-3-phenyl-2-thio-
     (7CI)  (CA INDEX NAME)
FS   3D CONCORD
MF   C18 H13 Br N4 S2
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS
         (*File contains numerically searchable property data)
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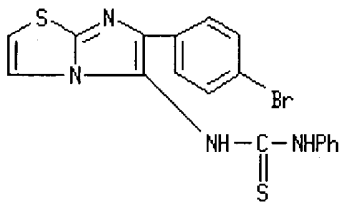


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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

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               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
               1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)



FILE 'CAOLD' ENTERED AT 18:23:45 ON 14 MAY 2004

=> fil reg; d acc 92905-61-8; fil CAOLD

FILE 'REGISTRY' ENTERED AT 18:23:51 ON 14 MAY 2004


ANSWER 1  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   92905-61-8  REGISTRY
CN   Imidazo[2,1-b]thiazole, 5-acetamido-6-(p-bromophenyl)- (7CI)  (CA INDEX
     NAME)
FS   3D CONCORD
MF   C13 H10 Br N3 O S
LC   STN Files:   BEILSTEIN*, CA, CAOLD, CAPLUS
         (*File contains numerically searchable property data)
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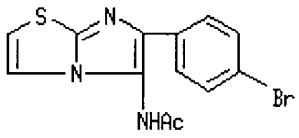


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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

               1 REFERENCES IN FILE CA (1907 TO DATE)
               1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
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1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

FILE 'CAOLD' ENTERED AT 18:23:52 ON 14 MAY 2004

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	413.68

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-11.09

FILE 'REGISTRY' ENTERED AT 18:23:56 ON 14 MAY 2004
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 13 MAY 2004 HIGHEST RN 681515-11-7
DICTIONARY FILE UPDATES: 13 MAY 2004 HIGHEST RN 681515-11-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
L18 STRUCTURE UPLOADED

=> d l18
L18 HAS NO ANSWERS
L18 STR

=> s l18
SAMPLE SEARCH INITIATED 18:29:20 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 494 TO ITERATE

100.0% PROCESSED 494 ITERATIONS 20 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 8547 TO 11213
PROJECTED ANSWERS: 132 TO 668

L19 20 SEA SSS SAM L18

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=> s l18 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 18:29:27 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -  10474 TO ITERATE

100.0% PROCESSED   10474 ITERATIONS                          409 ANSWERS
SEARCH TIME: 00.00.01

L20          409 SEA SSS FUL L18

=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   158.78     572.46

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00     -11.09

FILE 'HCAPLUS' ENTERED AT 18:29:30 ON 14 MAY 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 14 May 2004  VOL 140 ISS 21
FILE LAST UPDATED: 13 May 2004  (20040513/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.


=> s l20/thu
            81 L20
        592681 THU/RL
L21          9 L20/THU
                 (L20 (L) THU/RL)

=> s l21 and gerlach, m?/au
           233 GERLACH, M?/AU
L22          3 L21 AND GERLACH, M?/AU

=> d l22, ibib abs fhitstr, 1-3

L22  ANSWER 1 OF 3  HCAPLUS  COPYRIGHT 2004 ACS on STN
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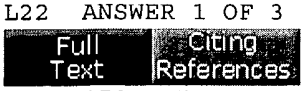


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ACCESSION NUMBER:         2001:798222  HCAPLUS
DOCUMENT NUMBER:          135:344484
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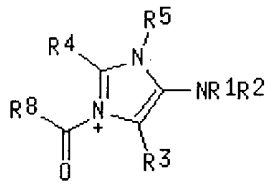
TITLE: Preparation of N-acylimidazopyridineamine chlorides and analogs as μ-opiate receptor ligands
INVENTOR(S): **Gerlach, Matthias**; Maul, Corinna
PATENT ASSIGNEE(S): Gruenenthal G.m.b.H., Germany
SOURCE: PCT Int. Appl., 83 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001081344	A1	20011101	WO 2001-EP3772	20010403
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 10019714	A1	20020110	DE 2000-10019714	20000420
EP 1274709	A1	20030115	EP 2001-931560	20010403
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2003531208	T2	20031021	JP 2001-578434	20010403
NO 2002004838	A	20021007	NO 2002-4838	20021007
US 2003119842	A1	20030626	US 2002-273344	20021018

PRIORITY APPLN. INFO.: DE 2000-10019714 A 20000420
WO 2001-EP3772 W 20010403
OTHER SOURCE(S): MARPAT 135:344484
GI

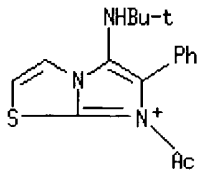


I

AB Title compds. (ICl-)[II; R1 = CMe3, cyclohexyl, CH2CO2Me, (un)substituted Ph, etc.; R2 = H or alkanoyl; R3 = Me, Ph, 2-furyl, 2-pyridinyl, etc.; R4R5 = (un)substituted CH:CHCH:CH, CH:NCH:CH, N:CHCH:CH, etc.; R8 = (cyclo)alkyl] were prepd. Thus, 2-aminopyridine was cyclocondensed with Me3CNC and PhCHO to give, after N-acylation, II (R1 = CMe3, R2 = H, R3 = Ph, R4R5 = CH:CHCH:CH, R8 = Me). Data for biol. activity of II were given.

IT **370858-36-9P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of N-acylimidazopyridineamine chlorides and analogs as μ-opiate receptor ligands)
RN 370858-36-9 HCAPLUS

CN Imidazo[2,1-b]thiazolium, 7-acetyl-5-[(1,1-dimethylethyl)amino]-6-phenyl-, chloride (9CI) (CA INDEX NAME)



Cl^-

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

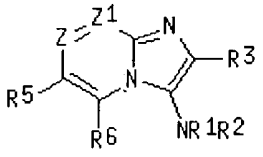
L22 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2001:283961 HCAPLUS
DOCUMENT NUMBER: 134:295826
TITLE: Preparation of imidazopyridineamines and analogs as analgesics
INVENTOR(S): **Gerlach, Matthias**; Maul, Corinna
PATENT ASSIGNEE(S): Gruenenthal G.m.b.H., Germany
SOURCE: PCT Int. Appl., 30 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001027119	A2	20010419	WO 2000-EP9098	20000918
WO 2001027119	A3	20011011		
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19948434	A1	20010607	DE 1999-19948434	19991008
PT 1218378	T	20030930	PT 2000-969439	20001006
ES 2198355	T3	20040201	ES 2000-969439	20001006
ZA 2002003579	A	20030806	ZA 2002-3579	20020506

PRIORITY APPLN. INFO.: DE 1999-19948434 A 19991008
OTHER SOURCE(S): MARPAT 134:295826
GI



I

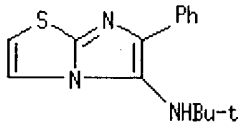
AB Substance libraries comprising, e.g., I [R1 = CMe3, cycloalkyl, (un)substituted Ph, etc.; R2 = H, cycloalkyl, alkanoyl, etc.; R3 = (cyclo)alkyl, (un)substituted (hetero)aryl, etc.; R5,R6 = H, halo, alkyl, alkoxy, etc.; Z = N or CR10; Z1 = N or CR9; R9,R10 = groups cited for R5; Z = N ≠ Z1; Z1 = N ≠ Z] were prepd. Thus, pyridine-2-amine was cyclocondensed with cyclohexanecarboxaldehyde and tert-Bu isocyanide to give I (R1 = CMe3, R2 = R5 = R6 = H, R3 = cyclohexyl, Z = Z1 = CH). Data for biol. activity of I were given.

IT **214531-41-6P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of imidazopyridineamines and analogs as analgesics)

RN 214531-41-6 HCAPLUS

CN Imidazo[2,1-b]thiazol-5-amine, N-(1,1-dimethylethyl)-6-phenyl- (9CI) (CA INDEX NAME)



L22 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2001:283960 HCAPLUS
DOCUMENT NUMBER: 134:295829
TITLE: Preparation of aminoimidazo[2,1-b]thiazoles, -pyrazoles, and -triazoles as analgesics
INVENTOR(S): **Gerlach, Matthias**; Maul, Corinna
PATENT ASSIGNEE(S): Gruenenthal G.m.b.H., Germany
SOURCE: PCT Int. Appl., 56 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001027118	A2	20010419	WO 2000-EP9097	20000918
WO 2001027118	A3	20010920		
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
DE 19948434	A1	20010607	DE 1999-19948434	19991008
DE 19948436	A1	20010607	DE 1999-19948436	19991008
BR 2000014817	A	20020618	BR 2000-14817	20000918
EP 1218383	A2	20020703	EP 2000-967693	20000918
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				

JP 2003511456	T2	20030325	JP 2001-530336		20000918
NZ 518390	A	20031031	NZ 2000-518390		20000918
NO 2002001566	A	20020527	NO 2002-1566		20020403
US 2002183320	A1	20021205	US 2002-117335		20020408
US 6657064	B2	20031202			
US 2004023927	A1	20040205	US 2003-633579		20030805
PRIORITY APPLN. INFO.:			DE 1999-19948434	A	19991008
			DE 1999-19948436	A	19991008
			DE 1999-19948438	A	19991008
			WO 2000-EP9097	W	20000918
			US 2002-117335	A3	20020408

OTHER SOURCE(S): MARPAT 134:295829
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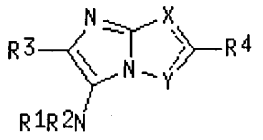
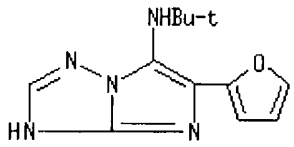


I

AB Title compds. [I; R1 = CMe3, cyanohexyl, (substituted) Ph, cycloalkyl, etc.; R2 = H, (branched) (substituted) alkylcarbonyl, Ph, naphthyl, pyridyl, thiazolyl, furoyl, etc.; R3 = (branched) alkylcycloalkyl, (substituted) Ph, naphthyl, quinolinyl, anthracenyl, phenanthrenyl, etc.; X = CR5, N, S; Y = N, but when X = S, Y = CR6, N; R4, R5, R6 = H, (branched) alkyl, halo, CF3, cyano, NO2, amino, etc.], were prepd. Using a Zymark robotic synthesis system, 3-amino-1,2,4-triazole and HClO4 in CH2Cl2, furfural in CH2Cl2, and tert-butylisonitrile in CH2Cl2 were added successively to a reactor tube at 15° followed by 11 h stirring at 15° to give tert-butyl-(5-furan-2-yl-imidazo[1,2-b][1,2,4]triazol-6-yl)amine. Several I at 10 μM showed 34-77% α2 adrenoceptor affinity.

IT **334771-60-7P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of aminoimidazothiazoles, -pyrazoles, and -triazoles as analgesics)

RN 334771-60-7 HCAPLUS
CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-(2-furanyl)- (9CI) (CA INDEX NAME)



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FILE 'REGISTRY' ENTERED AT 18:13:33 ON 14 MAY 2004
L1 STRUCTURE UPLOADED
L2 26 S L1

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L3              STRUCTURE UPLOADED
L4           20 S L3
L5          397 S L3 FULL

     FILE 'HCAPLUS' ENTERED AT 18:19:57 ON 14 MAY 2004
L6           75 S L5
L7              STRUCTURE UPLOADED
                S L7

     FILE 'REGISTRY' ENTERED AT 18:21:18 ON 14 MAY 2004
L8            6 S L7

     FILE 'HCAPLUS' ENTERED AT 18:21:19 ON 14 MAY 2004
L9            2 S L8

     FILE 'REGISTRY' ENTERED AT 18:21:22 ON 14 MAY 2004
L10             STRUCTURE UPLOADED
L11           6 S L10
L12          87 S L10 FULL

     FILE 'HCAPLUS' ENTERED AT 18:21:47 ON 14 MAY 2004
L13          16 S L12
L14           3 S L13 AND GERLACH, M?/AU
L15          13 S L13 NOT L14
L16           0 S L15 AND MAUL,C?/AU

     FILE 'CAOLD' ENTERED AT 18:23:05 ON 14 MAY 2004
L17           2 S L12

     FILE 'REGISTRY' ENTERED AT 18:23:34 ON 14 MAY 2004

     FILE 'CAOLD' ENTERED AT 18:23:35 ON 14 MAY 2004

     FILE 'REGISTRY' ENTERED AT 18:23:45 ON 14 MAY 2004

     FILE 'CAOLD' ENTERED AT 18:23:45 ON 14 MAY 2004

     FILE 'REGISTRY' ENTERED AT 18:23:51 ON 14 MAY 2004

     FILE 'CAOLD' ENTERED AT 18:23:52 ON 14 MAY 2004

     FILE 'REGISTRY' ENTERED AT 18:23:56 ON 14 MAY 2004
L18             STRUCTURE UPLOADED
L19          20 S L18
L20         409 S L18 FULL

     FILE 'HCAPLUS' ENTERED AT 18:29:30 ON 14 MAY 2004
L21           9 S L20/THU
L22           3 S L21 AND GERLACH, M?/AU

=> s l21 not l22
L23           6 L21 NOT L22

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            93 MAUL, C?/AU
L24           0 L23 AND MAUL, C?/AU

=> d l23, ibib abs fhitstr, 1-6

L23  ANSWER 1 OF 6  HCAPLUS  COPYRIGHT 2004 ACS on STN
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Full Text | Citing References

ACCESSION NUMBER: 2003:971725 HCAPLUS
DOCUMENT NUMBER: 140:35893
TITLE: Transcription factor modulating compounds and methods of use thereof
INVENTOR(S): Levy, Stuart B.; Alekshun, Michael N.; Podlogar, Brent L.; Ohemeng, Kwasi; Verma, Atul K.; Warchol, Tadeusz; Bhatia, Beena
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 301 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003229065	A1	20031211	US 2002-139591	20020814
WO 2004001058	A2	20031231	WO 2002-US14255	20020506

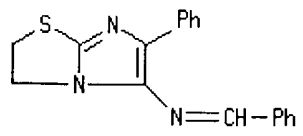
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2001-288660P P 20010504
OTHER SOURCE(S): MARPAT 140:35893

AB Methods for identifying compd. useful as anti-infectives that decrease resistance, virulence, or growth of microbes are provided. In one embodiment, the method comprises contacting a microbial cell comprising: (1) a selectable marker under the control of a transcription factor responsive element and (2) a transcription factor, with a compd. under conditions which allow interaction of the compd. with the microbial cell; and measuring the ability of the compd. to affect the growth or survival of the microbial cell as an indication of whether the test compd. modulates the activity of a transcription factor.

IT 106726-42-5
RL: PAC (Pharmacological activity); **THU (Therapeutic use)**; BIOL (Biological study); USES (Uses)
(transcription factor modulating compds. as anti-infectives agents that decrease resistance and virulence and growth identified by detg. marker under control of responsive element)

RN 106726-42-5 HCAPLUS
CN Imidazo[2,1-b]thiazol-5-amine, 2,3-dihydro-6-phenyl-N-(phenylmethylene)-(9CI) (CA INDEX NAME)



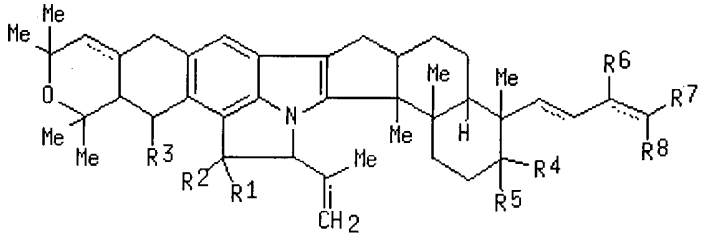
L23 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2003:507684 HCAPLUS
DOCUMENT NUMBER: 139:85530
TITLE: Preparation of C1 to c4 side-chain modified nodulisporic acid analogs as anthelmintic agents
INVENTOR(S): Shih, Thomas; Colletti, Steven L.; Fisher, Michael H.; Meinke, Peter T.; Kuo, Howard C. H.; Chakravarty, Prasun K.; Wyvratt, Matthew J.; Tyagarajan, Sriram; Berger, Richard
PATENT ASSIGNEE(S): Merck & Co., Inc., USA
SOURCE: U.S., 57 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6586452	B1	20030701	US 2001-901266	20010709
PRIORITY APPLN. INFO.:			US 2000-218398P P	20000714

OTHER SOURCE(S): MARPAT 139:85530
GI



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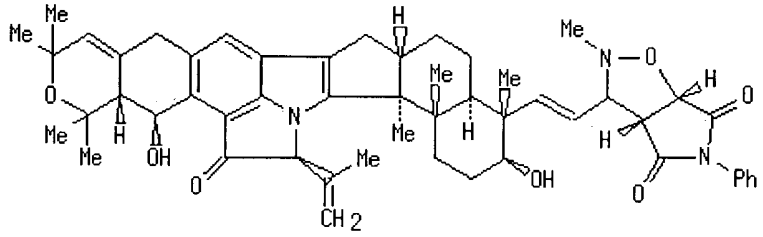


II

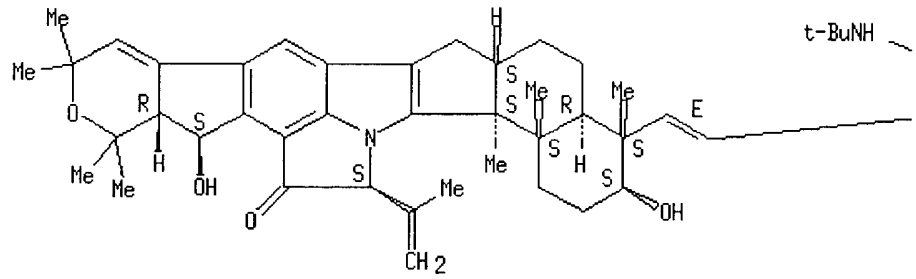
AB Nodulisporic acid derivs., such as I [R1 = H, alkyl, alkenyl, alkynyl, cycloalkyl, aryl, heterocyclyl; R2-R4 = (substituted) OH; R1R2 = O; R5 = H, (substituted) OH; R4R5 = O; R6-R8 = H, alkyl, alkenyl, aryl, cycloalkyl, halo, CN acyl, amino, etc.] were prepd. The compds. were acaricidal, antiparasitic, insecticidal and anthelmintic agents. Thus, nodulisporic acid deriv. II was prepd. via a multistep synthetic sequence starting from nodulisporic acid A, N-methylhydroxylamine hydrochloride and N-phenyl-maleimide.

IT **552836-27-8P**
RL: AGR (Agricultural use); PAC (Pharmacological activity); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of C1 to c4 side-chain modified nodulisporic acid analogs as anthelmintic agents)
RN 552836-27-8 HCAPLUS
CN 1H-Benz[6,7]indeno[1,2-b]pyrano[3',4':4,5]cyclopenta[1,2-f]pyrrolo[3,2,1-

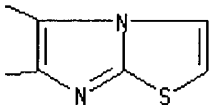
hi]indol-14(15H)-one, 4-[(1E)-2-[5-[(1,1-dimethylethyl)amino]imidazo[1,2-b]thiazol-6-yl]ethenyl]-2,3,4,4a,5,6,6a,7,10,12,12a,13,16b,16c-tetradecahydro-3,13-dihydroxy-4,10,10,12,12,16b,16c-heptamethyl-15-(1-methylethenyl)-, (3S,4S,4aR,6aS,12aR,13S,15S,16bS,16cS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry as shown.

PAGE 1-A



PAGE 1-B



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

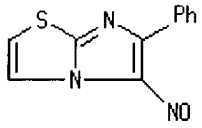
L23 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2002:488374 HCAPLUS
DOCUMENT NUMBER: 137:179390
TITLE: Cardiovascular Characterization of [1,4]Thiazino[3,4-c][1,2,4]oxadiazol-1-one Derivatives: Selective Myocardial Calcium Channel Modulators
AUTHOR(S): Budriesi, Roberta; Cosimelli, Barbara; Ioan, Pierfranco; Lanza, Camilla Zaira; Spinelli, Domenico; Chiarini, Alberto
CORPORATE SOURCE: Dipartimento di Scienze Farmaceutiche, Universita di Bologna, Bologna, 40126, Spain
SOURCE: Journal of Medicinal Chemistry (2002), 45(16), 3475-3481
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB As an extension of previous investigations (Tetrahedron 1999, 55, 5433-5440; J. Heterocycl. Chem. 2000, 37, 875-878), a series of 21 [1,4]thiazino[3,4-c][1,2,4]oxadiazolones, which has already been synthesized (except for tree compds.), was evaluated as calcium entry blockers by functional studies, namely, in isolated guinea-pig left and right atria and K+-depolarized aortic strips. With the aim of investigating the effect of a condensed benzene ring on the mol. structure. The results obtained show that many of the compds. studied are potent and selective neg. inotropic agents; in particular, two compds. are about 3- and 2-fold more potent than diltiazem, resp.

IT **16311-34-5P**
RL: PAC (Pharmacological activity); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(thiazinooxadiazolone derivs. inotropic calcium channel modulating-structure in relation to drug design)
RN 16311-34-5 HCAPLUS
CN Imidazo[2,1-b]thiazole, 5-nitroso-6-phenyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



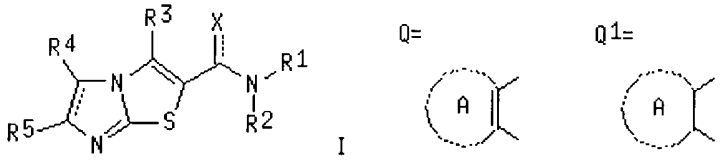
REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN
Full Text | Citing References

ACCESSION NUMBER: 2002:270662 HCAPLUS
DOCUMENT NUMBER: 136:294827
TITLE: Preparation of imidazothiazole derivatives as ligands for metabotropic glutamate receptor
INVENTOR(S): Hayashibe, Satoshi; Itahana, Hirotsune; Okada, Shoji; Ohara, Atsuyuki; Negoro, Kenji; Nozawa, Shigenori; Kamikubo, Takashi; Sakamoto, Shuichi
PATENT ASSIGNEE(S): Yamanouchi Pharmaceutical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002105085	A2	20020410	JP 2000-296124	20000928

PRIORITY APPLN. INFO.: JP 2000-296124 20000928
OTHER SOURCE(S): MARPAT 136:294827
GI



AB The title compds. [I; R1, R2 = H, lower alkyl, cycloalkyl; R3 = H, lower alkyl; R4, R5 = H, halo, NO2, (un)substituted lower alkyl, aryl, heteroaryl, COR9, NHCO-O-lower alkyl, CR8:CR6R7, CR8R5aC(:CH2)R7; or R4 and R5 together represent Q, Q1; ring A = (un)substituted carbocyclic or arom. heterocyclic ring optionally possessing 1 or 2 double bond(s), wherein the ring atoms are carbon atoms or may contain 1-3 heteroatoms; R6, R7 = H, (un)substituted lower alkyl, aryl, or heteroaryl, lower alkoxycarbonyl, COR9, or R6 and R7 are combined together to represent cycloalkyl or (un)satd. heterocyclic ring; R6a = NR10R11; wherein R10, R11

= H, (un)substituted lower alkyl or R10 and R11 together form (un)substituted heteroaryl or satd. heterocyclic ring; X = O, H] or pharmacol. acceptable salts thereof are prepd. These compds. are useful as agonists and/or antagonists for metabotropic glutamate receptor (mGluR1), in particular in the prevention or treatment of cerebral infarction (no data). Thus, a soln. of 2.5 g Et imidazo[2,1-b]thiazole-2-carboxylate in 100 mL methanol was treated with 30 mL 1 M aq. NaOH, stirred at room temp. for 2 h, refluxed for 15 min, cooled to room temp., and treated with 1 M aq. HCl followed by distg. off the solvent under reduced pressure, to give crude imidazo[2,1-b]thiazole-2-carboxylic acid hydrochloride (II). II was dissolved in 30 mL DMF, treated with 3.3 mL N-methylmorpholine and 1.43 mL Et chloroformate at -10°, and stirred at the same temp. for 3 h to give, after workup and conversion into the HCl salt, N-cyclohexyl-N-methylimidazo[2,1-b]thiazole-2-carboxamide hydrochloride.

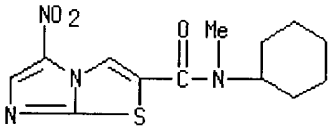
IT **409061-96-7P**

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of imidazothiazole derivs. as ligands for metabotropic glutamate receptor in prevention or treatment of cerebral infarction)

RN 409061-96-7 HCAPLUS

CN Imidazo[2,1-b]thiazole-2-carboxamide, N-cyclohexyl-N-methyl-5-nitro- (9CI) (CA INDEX NAME)



L23 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2000:619076 HCAPLUS

DOCUMENT NUMBER: 134:256

TITLE: Potential antitumor agents. part 29: synthesis and potential coanthracyclinic activity of Imidazo[2,1-b]thiazole guanylhydrazones

AUTHOR(S): Andreani, A.; Leoni, A.; Locatelli, A.; Morigi, R.; Rambaldi, M.; Recanatini, M.; Garaliene, V.

CORPORATE SOURCE: Dipartimento di Scienze Farmaceutiche, Universita di Bologna, Bologna, 40126, Italy

SOURCE: Bioorganic & Medicinal Chemistry (2000), 8(9), 2359-2366
CODEN: BMECEP; ISSN: 0968-0896

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 134:256

AB This paper reports the synthesis of new imidazo[2,1-b]thiazole guanylhydrazones which were tested as potential antitumor agents. Three of these derivs. (those bearing a 3- or 4-nitrophenyl group) were the most potent and one of these showed a mild effect as cyclin-dependent kinase 1 (CDK1) inhibitor. These same three derivs. were also tested as pos. inotropic agents and two of them were more potent than amrinone at 10-5 M. These two guanylhydrazones could be useful coanthracyclinic agents.

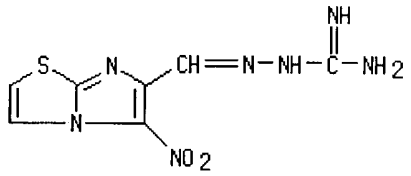
IT **308121-59-7P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(synthesis and potential coanthracyclinic activity of Imidazo[b]thiazole guanylhydrazones as potential antitumor agents with pos. inotropic activity in relation to cyclin-dependent kinase 1 inhibition)

RN 308121-59-7 HCAPLUS

CN Hydrazinecarboximidamide, 2-[(5-nitroimidazo[2,1-b]thiazol-6-yl)methylene]-, tetrahydrochloride (9CI) (CA INDEX NAME)



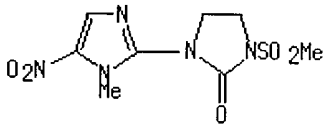
4 HCl

REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L23 ANSWER 6 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 1984:603875 HCAPLUS
DOCUMENT NUMBER: 101:203875
TITLE: Nitroimidazoles: part XIX - structure-activity relationships
AUTHOR(S): Nagarajan, K.; Arya, V. P.; George, T.; Nair, M. D.; Sudarsanam, V.; Ray, D. K.; Shrivastava, V. B.
CORPORATE SOURCE: Res. Cent., CIBA-GEIGY, Bombay, 400 063, India
SOURCE: Indian Journal of Chemistry, Section B: Organic Chemistry Including Medicinal Chemistry (1984), 23B(4), 342-62
CODEN: IJSBDB; ISSN: 0376-4699
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB A variety of nitroimidazoles, mostly 1,2-disubstituted-5-nitro derivs. were examd. for in vitro activity against Entamoeba histolytica and for effectiveness in treating early hepatic infection in golden hamsters. Many compds. carried a functionalized N atom at position 2. In vivo activity was obsd. with 1-alkyl-5-nitroimidazoles carrying a substituted imidazolidinone or imidazole. Among these derivs., 1-methylsulfonyl-3-(1-methyl-5-nitro-2-imidazolyl)-2-imidazolidinone (I) [56302-13-7] was the most potent against hepatic and caecal infections of E. histolytica in the golden hamster and Trichomonas foetus infections in mice. It was developed as a drug for treatment of amoebiasis, giardiasis, and trichomoniasis. The structure-antiamebic activity relationships of the

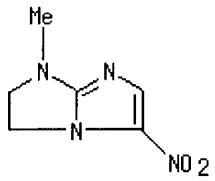
nitroimidazoles are discussed.

IT **65092-06-0**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); **THU (Therapeutic use)**; BIOL (Biological study); USES (Uses)
(amebicidal activity of, structure in relation to)

RN 65092-06-0 HCAPLUS

CN 1H-Imidazo[1,2-a]imidazole, 2,3-dihydro-1-methyl-5-nitro- (9CI) (CA INDEX NAME)



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FILE LAST UPDATED: 01 May 1997 (19970501/UP)

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L2 26 S L1
L3 STRUCTURE UPLOADED
L4 20 S L3
L5 397 S L3 FULL

FILE 'HCAPLUS' ENTERED AT 18:19:57 ON 14 MAY 2004
L6 75 S L5

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L7              STRUCTURE UPLOADED
                S L7

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L8            6 S L7

     FILE 'HCAPLUS' ENTERED AT 18:21:19 ON 14 MAY 2004
L9            2 S L8

     FILE 'REGISTRY' ENTERED AT 18:21:22 ON 14 MAY 2004
L10             STRUCTURE UPLOADED
L11           6 S L10
L12          87 S L10 FULL

     FILE 'HCAPLUS' ENTERED AT 18:21:47 ON 14 MAY 2004
L13          16 S L12
L14           3 S L13 AND GERLACH, M?/AU
L15          13 S L13 NOT L14
L16           0 S L15 AND MAUL,C?/AU

     FILE 'CAOLD' ENTERED AT 18:23:05 ON 14 MAY 2004
L17           2 S L12

     FILE 'REGISTRY' ENTERED AT 18:23:34 ON 14 MAY 2004

     FILE 'CAOLD' ENTERED AT 18:23:35 ON 14 MAY 2004

     FILE 'REGISTRY' ENTERED AT 18:23:45 ON 14 MAY 2004

     FILE 'CAOLD' ENTERED AT 18:23:45 ON 14 MAY 2004

     FILE 'REGISTRY' ENTERED AT 18:23:51 ON 14 MAY 2004

     FILE 'CAOLD' ENTERED AT 18:23:52 ON 14 MAY 2004

     FILE 'REGISTRY' ENTERED AT 18:23:56 ON 14 MAY 2004
L18             STRUCTURE UPLOADED
L19          20 S L18
L20         409 S L18 FULL

     FILE 'HCAPLUS' ENTERED AT 18:29:30 ON 14 MAY 2004
L21           9 S L20/THU
L22           3 S L21 AND GERLACH, M?/AU
L23           6 S L21 NOT L22
L24           0 S L23 AND MAUL, C?/AU

     FILE 'CAOLD' ENTERED AT 18:31:00 ON 14 MAY 2004

=> s l20
L25           6 L20

=> d l25, all, 1-6

L25  ANSWER 1 OF 6  CAOLD  COPYRIGHT 2004 ACS on STN
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Full Text

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AN   CA64:2093g  CAOLD
TI   1-substituted-2-acyl-5-nitroimidazoles
AU   Henry, David W.; Hoff, D. R.
DT   Patent
```

TI 2-acyl-5-nitroimidazoles (1-substituted)
PA Merck & Co., Inc.
DT Patent

PATENT NO.	KIND	DATE
BE 661262		
NL 6503442		

IT 1563-99-1 4224-56-0 4750-32-7 4750-33-8 4750-34-9 4750-35-0
4750-36-1 4750-37-2 4750-38-3 4750-39-4 4750-54-3 4750-55-4
4750-56-5 4750-57-6 4750-58-7 4750-59-8 4812-30-0 4812-31-1
4812-32-2 4812-33-3 **4812-34-4** **4812-35-5** **4812-36-6**
4812-37-7 4812-39-9 4819-25-4 4827-75-2 4859-05-6 4994-21-2
4994-22-3 5605-52-7 7760-43-2 10213-26-0 13489-37-7 21741-90-2

L25 ANSWER 2 OF 6 CAOLD COPYRIGHT 2004 ACS on STN
AN CA58:2443e CAOLD
TI bicyclic heterocyclic compds with a common N atom - (IV) aminoimidazo[2,1-b]thiazoles
AU Pyl, Theodor; Wuensch, K. H.; Buelling, L.; Beyer, H.
IT 74416-91-4 **88855-97-4** **88855-99-6** **91183-08-3** **91394-83-1**
91394-84-2 **91635-13-1** **92286-32-3** **92545-85-2** **93327-30-1**
93819-53-5 **93869-37-5** **94463-22-6** **94574-43-3** **94622-88-5**
94802-80-9 **94802-82-1** **94994-64-6** **95315-23-4** **95315-26-7**
96984-80-4 **96986-17-3** **97026-49-8** 111164-78-4

L25 ANSWER 3 OF 6 CAOLD COPYRIGHT 2004 ACS on STN
AN CA58:2442g CAOLD
TI bicyclic heterocyclic compds. with a common N atom - (III) nitrosation and azo coupling of 6-phenylimidazo[2,1-b]thiazoles
AU Pyl, Theodor; Wuensch, K. H.; Beyer, H.
IT **14954-66-6** **14956-60-6** **14956-61-7** **16311-34-5** 27129-49-3
91065-26-8 91330-92-6 **91493-98-0** **91493-99-1** 91494-00-7
91902-04-4 92697-08-0 92905-62-9 **93191-39-0** **93329-14-7** **95024-60-5**

L25 ANSWER 4 OF 6 CAOLD COPYRIGHT 2004 ACS on STN
AN CA56:2442g CAOLD
TI phenoxazines - (V) syntheses of 7-amino-2-phenoxazones
AU Musso, Hans; Wager, P.
IT 493-42-5 1916-58-1 2835-97-4 3950-31-0 26103-30-0 26103-31-1
53669-94-6 53669-95-7 53669-97-9 67862-51-5 92060-74-7 92102-80-2
92149-10-5 92149-30-9 92149-31-0 92437-82-6 92873-56-8 **92905-61-8**
93014-15-4 93431-78-8 93986-16-4 94538-61-1 94709-90-7 94906-40-8
95019-65-1 98016-21-8 98396-82-8

L25 ANSWER 5 OF 6 CAOLD COPYRIGHT 2004 ACS on STN
AN CA55:27354d CAOLD
TI condensed polymethylene derivs. of heterocycles based on lactams - (V) synthesis of 8,9-tri- and tetramethylenepurines
AU Glushkov, R. G.; Magidson, O. Yu.
IT 4430-74-4 5654-82-0 98490-26-7 108106-76-9 108128-97-8 108249-28-1
108480-63-3 109442-37-7 109497-99-6 109498-00-2 109510-96-5 109817-54-1
109848-37-5 109868-78-2 117888-87-6 118802-01-0 **118950-56-4**
118950-57-5 130936-42-4

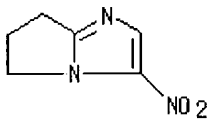
L25 ANSWER 6 OF 6 CAOLD COPYRIGHT 2004 ACS on STN
AN CA55:24726d CAOLD
TI bicyclic heterocyclic compds. with a common N atom - (I) imidazo[2,1-b]-thiazoles
AU Pyl, Theodor; Giebelmann, R.; Beyer, H.

IT 7120-13-0 51226-37-0 51226-38-1 **91493-98-0** 92082-02-5 99866-35-0
99866-92-9 100377-88-6 101717-13-9 101869-59-4 102060-51-5 102754-24-5
103165-68-0 105789-87-5 105790-09-8 107518-43-4 108482-95-7 108979-82-4
109189-29-9 109222-28-8 109847-19-0 114930-59-5 115051-00-8 118685-43-1
118978-77-1 119658-48-9

=> fil reg; d acc 4812-34-4; fil CAOLD

FILE 'REGISTRY' ENTERED AT 18:31:23 ON 14 MAY 2004

ANSWER 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 4812-34-4 REGISTRY
CN 5H-Pyrrolo[1,2-a]imidazole, 6,7-dihydro-3-nitro- (7CI, 8CI, 9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C6 H7 N3 O2
LC STN Files: CA, CAOLD, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

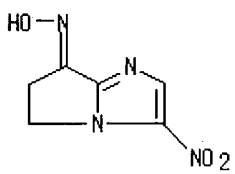
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

FILE 'CAOLD' ENTERED AT 18:31:23 ON 14 MAY 2004

=> fil reg; d acc 4812-35-5; fil CAOLD

FILE 'REGISTRY' ENTERED AT 18:31:43 ON 14 MAY 2004

ANSWER 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 4812-35-5 REGISTRY
CN 7H-Pyrrolo[1,2-a]imidazol-7-one, 5,6-dihydro-3-nitro-, oxime (7CI, 8CI) (CA INDEX NAME)
FS 3D CONCORD
MF C6 H6 N4 O3
LC STN Files: CA, CAOLD, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

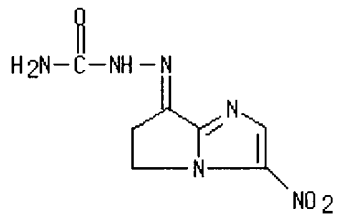
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

FILE 'CAOLD' ENTERED AT 18:31:43 ON 14 MAY 2004

=> fil reg; d acc 4812-36-6; fil CAOLD

FILE 'REGISTRY' ENTERED AT 18:31:50 ON 14 MAY 2004

ANSWER 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 4812-36-6 REGISTRY
CN 7H-Pyrrolo[1,2-a]imidazol-7-one, 5,6-dihydro-3-nitro-, semicarbazone (7CI, 8CI) (CA INDEX NAME)
FS 3D CONCORD
MF C7 H8 N6 O3
LC STN Files: CA, CAOLD, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

FILE 'CAOLD' ENTERED AT 18:31:51 ON 14 MAY 2004

=> fil reg; d acc 4812-37-7; fil CAOLD

FILE 'REGISTRY' ENTERED AT 18:31:57 ON 14 MAY 2004

ANSWER 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 4812-37-7 REGISTRY
CN 7H-Pyrrolo[1,2-a]imidazol-7-one, 5,6-dihydro-3-nitro- (7CI, 8CI) (CA INDEX NAME)
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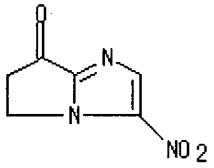
LC STN Files: CA, CAOLD, CAPLUS



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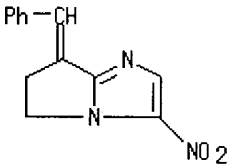
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

FILE 'CAOLD' ENTERED AT 18:31:58 ON 14 MAY 2004

=> fil reg; d acc 4994-22-3; fil CAOLD

FILE 'REGISTRY' ENTERED AT 18:32:04 ON 14 MAY 2004

ANSWER 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 4994-22-3 REGISTRY
CN 5H-Pyrrolo[1,2-a]imidazole, 7-benzylidine-6,7-dihydro-3-nitro- (8CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 5H-Pyrrolo[1,2-a]imidazole, 7-benzylidene-6,7-dihydro-3-nitro- (7CI)
FS 3D CONCORD
MF C13 H11 N3 O2
LC STN Files: CA, CAOLD, CAPLUS



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1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

FILE 'CAOLD' ENTERED AT 18:32:04 ON 14 MAY 2004

=> fil reg; d acc 88855-97-4; fil CAOLD

FILE 'REGISTRY' ENTERED AT 18:32:23 ON 14 MAY 2004

ANSWER 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 88855-97-4 REGISTRY
CN Imidazo[2,1-b]thiazole, 5-amino-6-(p-aminophenyl)-2-methyl-, dipicrate

(7CI) (CA INDEX NAME)
MF C12 H12 N4 S . 2 C6 H3 N3 O7
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)

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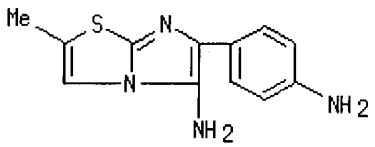
CRN 88855-96-3
CMF C12 H12 N4 S



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CRN 88-89-1
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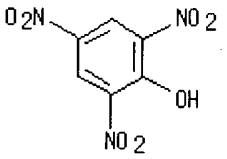

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

FILE 'CAOLD' ENTERED AT 18:32:24 ON 14 MAY 2004

=> **file reg**

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	642.15
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-17.33

FILE 'REGISTRY' ENTERED AT 18:32:49 ON 14 MAY 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 13 MAY 2004 HIGHEST RN 681515-11-7
DICTIONARY FILE UPDATES: 13 MAY 2004 HIGHEST RN 681515-11-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

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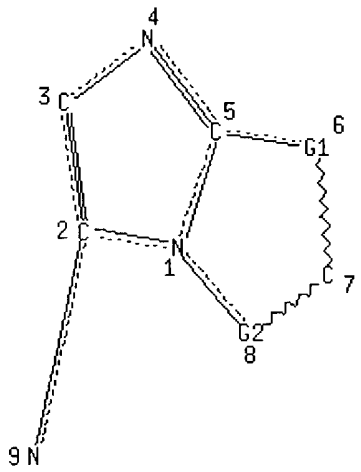
L26 STRUCTURE UPLOADED

=> d l26
L26 HAS NO ANSWERS
L26 STR

N 14 C 15

C 11 S 12 N 13
Page 1-A



Page 1-B

C 10
Page 3-A
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VAR G2=14/15
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NSPEC IS R AT 2
NSPEC IS R AT 3
NSPEC IS R AT 4
NSPEC IS R AT 5
NSPEC IS R AT 6
NSPEC IS R AT 7
NSPEC IS R AT 8
NSPEC IS C AT 9
NSPEC IS C AT 10
DEFAULT MLEVEL IS ATOM
MLEVEL IS CLASS AT 9 10
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 15

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STEREO ATTRIBUTES: NONE


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SAMPLE SCREEN SEARCH COMPLETED -    492 TO ITERATE

100.0% PROCESSED     492 ITERATIONS                              20 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         8510 TO    11170
PROJECTED ANSWERS:             132 TO      668

L27          20 SEA SSS SAM L26

=> s l26 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 18:33:58 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -  10461 TO ITERATE

100.0% PROCESSED   10461 ITERATIONS                            379 ANSWERS
SEARCH TIME: 00.00.01

L28         379 SEA SSS FUL L26

=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   155.84     797.99

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00     -17.33

FILE 'HCAPLUS' ENTERED AT 18:34:03 ON 14 MAY 2004
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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 14 May 2004  VOL 140 ISS 21
FILE LAST UPDATED: 13 May 2004  (20040513/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.
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            78 L28
        592681 THU/RL
L29          9 L28/THU
                 (L28 (L) THU/RL)

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L30          0 L29 AND PAIN?

=> s l29 and analg?
         55467 ANALG?
L31          3 L29 AND ANALG?

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L31  ANSWER 1 OF 3  HCAPLUS  COPYRIGHT 2004 ACS on STN
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Full Text | Citing References

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ACCESSION NUMBER:         2001:798222  HCAPLUS
DOCUMENT NUMBER:          135:344484
TITLE:                    Preparation of N-acylimidazopyridineamine chlorides
                          and analogs as μ-opiate receptor ligands
INVENTOR(S):              Gerlach, Matthias; Maul, Corinna
PATENT ASSIGNEE(S):       Gruenenthal G.m.b.H., Germany
SOURCE:                   PCT Int. Appl., 83 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 German
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
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     WO 2001081344      A1   20011101       WO 2001-EP3772   20010403
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             CO, CR, CU, CZ, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
             HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
             LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
             SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
             YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     DE 10019714        A1   20020110       DE 2000-10019714 20000420
     EP 1274709         A1   20030115       EP 2001-931560   20010403
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     JP 2003531208      T2   20031021       JP 2001-578434   20010403
     NO 2002004838      A    20021007       NO 2002-4838     20021007
     US 2003119842      A1   20030626       US 2002-273344   20021018
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OTHER SOURCE(S):          MARPAT 135:344484
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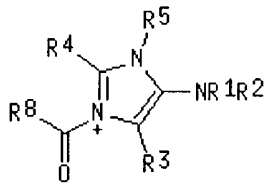


I

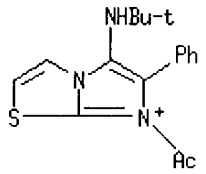
AB Title compds. (ICl-)[II; R1 = CMe3, cyclohexyl, CH2CO2Me, (un)substituted Ph, etc.; R2 = H or alkanoyl; R3 = Me, Ph, 2-furyl, 2-pyridinyl, etc.; R4R5 = (un)substituted CH:CHCH:CH, CH:NCH:CH, N:CHCH:CH, etc.; R8 = (cyclo)alkyl] were prepd. Thus, 2-aminopyridine was cyclocondensed with Me3CNC and PhCHO to give, after N-acylation, II (R1 = CMe3, R2 = H, R3 = Ph, R4R5 = CH:CHCH:CH, R8 = Me). Data for biol. activity of II were given.

IT **370858-36-9P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of N-acylimidazopyridineamine chlorides and analogs as μ-opiate receptor ligands)

RN 370858-36-9 HCAPLUS

CN Imidazo[2,1-b]thiazolium, 7-acetyl-5-[(1,1-dimethylethyl)amino]-6-phenyl-, chloride (9CI) (CA INDEX NAME)



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REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L31 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2001:283961 HCAPLUS
DOCUMENT NUMBER: 134:295826
TITLE: Preparation of imidazopyridineamines and analogs as **analgesics**
INVENTOR(S): Gerlach, Matthias; Maul, Corinna
PATENT ASSIGNEE(S): Gruenenthal G.m.b.H., Germany
SOURCE: PCT Int. Appl., 30 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001027119	A2	20010419	WO 2000-EP9098	20000918
WO 2001027119	A3	20011011		

W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN,

IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,
SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ,
BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

DE 19948434	A1	20010607	DE 1999-19948434	19991008
PT 1218378	T	20030930	PT 2000-969439	20001006
ES 2198355	T3	20040201	ES 2000-969439	20001006
ZA 2002003579	A	20030806	ZA 2002-3579	20020506

PRIORITY APPLN. INFO.: DE 1999-19948434 A 19991008
OTHER SOURCE(S): MARPAT 134:295826
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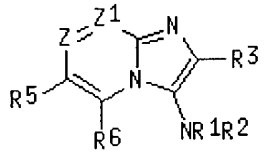
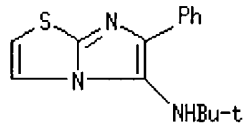


I

AB Substance libraries comprising, e.g., I [R1 = CMe3, cycloalkyl, (un)substituted Ph, etc.; R2 = H, cycloalkyl, alkanoyl, etc.; R3 = (cyclo)alkyl, (un)substituted (hetero)aryl, etc.; R5,R6 = H, halo, alkyl, alkoxy, etc.; Z = N or CR10; Z1 = N or CR9; R9,R10 = groups cited for R5; Z = N ≠ Z1; Z1 = N ≠ Z] were prepd. Thus, pyridine-2-amine was cyclocondensed with cyclohexanecarboxaldehyde and tert-Bu isocyanide to give I (R1 = CMe3, R2 = R5 = R6 = H, R3 = cyclohexyl, Z = Z1 = CH). Data for biol. activity of I were given.

IT **214531-41-6P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of imidazopyridineamines and analogs as **analgesics**)

RN 214531-41-6 HCAPLUS
CN Imidazo[2,1-b]thiazol-5-amine, N-(1,1-dimethylethyl)-6-phenyl- (9CI) (CA INDEX NAME)



L31 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text | Citing References

ACCESSION NUMBER: 2001:283960 HCAPLUS
DOCUMENT NUMBER: 134:295829
TITLE: Preparation of aminoimidazo[2,1-b]thiazoles, -pyrazoles, and -triazoles as **analgesics**
INVENTOR(S): Gerlach, Matthias; Maul, Corinna
PATENT ASSIGNEE(S): Gruenenthal G.m.b.H., Germany
SOURCE: PCT Int. Appl., 56 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001027118	A2	20010419	WO 2000-EP9097	20000918
WO 2001027118	A3	20010920		
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RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
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DE 19948436	A1	20010607	DE 1999-19948436	19991008
BR 2000014817	A	20020618	BR 2000-14817	20000918
EP 1218383	A2	20020703	EP 2000-967693	20000918
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
JP 2003511456	T2	20030325	JP 2001-530336	20000918
NZ 518390	A	20031031	NZ 2000-518390	20000918
NO 2002001566	A	20020527	NO 2002-1566	20020403
US 2002183320	A1	20021205	US 2002-117335	20020408
US 6657064	B2	20031202		
US 2004023927	A1	20040205	US 2003-633579	20030805

PRIORITY APPLN. INFO.:

DE 1999-19948434	A	19991008
DE 1999-19948436	A	19991008
DE 1999-19948438	A	19991008
WO 2000-EP9097	W	20000918
US 2002-117335	A3	20020408

OTHER SOURCE(S): MARPAT 134:295829

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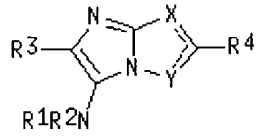


I

AB Title compds. [I; R1 = CMe3, cyanohexyl, (substituted) Ph, cycloalkyl, etc.; R2 = H, (branched) (substituted) alkylcarbonyl, Ph, naphthyl, pyridyl, thiazolyl, furoyl, etc.; R3 = (branched) alkylcycloalkyl, (substituted) Ph, naphthyl, quinolinyl, anthracenyl, phenanthrenyl, etc.; X = CR5, N, S; Y = N, but when X = S, Y = CR6, N; R4, R5, R6 = H, (branched) alkyl, halo, CF3, cyano, NO2, amino, etc.], were prepd. Using a Zymark robotic synthesis system, 3-amino-1,2,4-triazole and HClO4 in CH2Cl2, furfural in CH2Cl2, and tert-butylisonitrile in CH2Cl2 were added successively to a reactor tube at 15° followed by 11 h stirring at 15° to give tert-butyl-(5-furan-2-yl-imidazo[1,2-b][1,2,4]triazol-6-yl)amine. Several I at 10 μM showed 34-77% α2 adrenoceptor affinity.

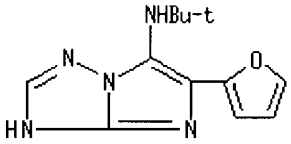
IT **334771-60-7P**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of aminoimidazothiazoles, -pyrazoles, and -triazoles as **analgesics**)

RN 334771-60-7 HCAPLUS

CN 1H-Imidazo[1,2-b][1,2,4]triazol-6-amine, N-(1,1-dimethylethyl)-5-(2-furanyl)- (9CI) (CA INDEX NAME)



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